



**STL Sacramento**  
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November 30, 2006

**STL SACRAMENTO PROJECT NUMBER: G6K020151**  
PO/CONTRACT: 129682.001/Event 106

Guy Graening  
Brown and Caldwell  
10540 White Rock Road  
Suite 180  
Rancho Cordova, CA 95670

Dear Mr. Graening,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on November 2, 2006. These samples are associated with your 21243 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4384.

Sincerely,

A handwritten signature in black ink, appearing to read "K Dahl".

Karen Dahl  
Project Manager

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## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G6K020151

#### **AIR, 9056, Sulfate**

The samples were analyzed 1 day outside of the 28 day holding time listed in the QAPP, but were analyzed within the lab's default holding time for this analysis. The analysts are now aware of the QAPP's holding time requirement.

There were no other anomalies associated with this project.

### STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon*	CA 200005
Arizona	AZ0616	Pennsylvania	68-1272
Arkansas	04-067-0	South Carolina	87014002
California*	01119CA	Texas	TX 270-2004A
Colorado	NA	Utah*	QUAN1
Connecticut	PH-0691	Virginia	00178
Florida*	E87570	Washington	C087
Georgia	960	West Virginia	9930C, 334
Hawaii	NA	Wisconsin	998204680
Louisiana*	01944	NFESC	NA
Michigan	9947	USACE	NA
Nevada	CA44	USDA Foreign Plant	37-82605
New Jersey*	CA005	USDA Foreign Soil	S-46613
New York*	11666		

\*NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/05

### QC Parameter Definitions

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

# Sample Summary

## G6K020151

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
JHRAM	1	P-0782	10/24/2006 11:55 AM	11/2/2006 08:35 AM
JHRAX	2	P-0783	10/24/2006 12:10 PM	11/2/2006 08:35 AM
JHRA2	3	P-0784	10/24/2006 12:30 PM	11/2/2006 08:35 AM
JHRA4	4	000547	10/24/2006 12:35 PM	11/2/2006 08:35 AM
JHRCC	5	P-0785	10/24/2006 12:00 PM	11/2/2006 08:35 AM

### Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

**BROWN AND CALDWELL**

**CHAIN OF CUSTODY RECORD**

COC No. \_\_\_\_\_

3264 Goni Road / Suite 153  
Carson City, NV 89706  
775-883-4118 / FAX 775-883-5108

4425 W. Spring Mountain Road / Suite 225  
Las Vegas, NV 89102  
702-938-4080 / FAX 702-938-4082

Event 106  
 201 East Washington Street / Suite 500  
Phoenix, AZ 85004  
602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Air Qty LABORATORY NAME & ADDRESS: SEVERN-TRENT LABS., WEST-SACRAMENTO,  
PROJECT NUMBER: 121243

LINE NO.	SAMPLE - I.D.	COLLECTION DATE	TIME	SAMPLERS INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESERVATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC - REQ	SAMPLING METHOD	DEPTH (FT.) BEGIN - END	PID READING (ppm)
01	P-0782	12/24/00	11:55 AM	MS	1	8x10 Filter	NONE	A	PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (AL,As,Cd,Cr,Cu,Mn,Ni), Sulfate			MS/hr	----	
02	P-0783	12:10			1	8x10 Filter	NONE	A	PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (AL,As,Cd,Cr,Cu,Mn,Ni), Sulfate			0.27	----	
03	P-0784	12:30			1	8x10 Filter	NONE	A	PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (AL,As,Cd,Cr,Cu,Mn,Ni), Sulfate			0.29	----	
04	000547	12:35			1	8x10 Filter	NONE	A	TSP, Gross Alpha, Th(228,230), Ra(226,228), Metals (AL,As,Cd,Cr,Cu,Mn,Ni), Sulfate			0.35	----	
05	P-0785	12:00			1	8x10	None	A	pm-10			0.28	----	
06													----	
07													----	
08													----	
09													----	
10													----	

COLLECTED & RELEASED BY: Cheryl DATE: 11/10/00 TIME: 6:00 COOLER I.D.: \_\_\_\_\_  
 RECEIVED BY: Cheryl DATE: 12/20/00 TIME: 4:40 REINQUISHED BY: \_\_\_\_\_  
 COMMENTS (see note on back): \_\_\_\_\_  
 RECORD RETURNED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_  
 COURIER: FEDEX SHIPPING NUMBER: 792876323808

USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK.



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT Brown & Caldwell PM KD LOG # 42007

LOT# (QUANTIMS ID) G6K020151 QUOTE# 62684 LOCATION AC

DATE RECEIVED 11/2/06 TIME RECEIVED 0835

Initials QV Date 11/2/06

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) \_\_\_\_\_

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER NA

COC #(S) \_\_\_\_\_

TEMPERATURE BLANK Observed: \_\_\_\_\_ Corrected: NA

SAMPLE TEMPERATURE  
Observed: Ambient Average: \_\_\_\_\_ Corrected Average: \_\_\_\_\_

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C – 6 °C)\*1  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_

Lot ID: Case 020151

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___"CT																				
Encore																				
Folder/filter	/	/	/	/	/															
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20  
h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

# AIR, 6020, Metals

Brown and Caldwell

Client Sample ID: P-0782

TOTAL Metals

Lot-Sample #...: G6K020151-001

Matrix.....: AIR

Date Sampled...: 10/24/06

Date Received...: 11/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6321133						
Aluminum	132 B	240	ug	SW846 6020	11/17-11/22/06	JHRAM1AC
		Dilution Factor: 1		MDL.....: 120		
Arsenic	ND	2.9	ug	SW846 6020	11/17-11/27/06	JHRAM1AD
		Dilution Factor: 1		MDL.....: 0.89		
Cadmium	0.065 B	1.2	ug	SW846 6020	11/17-11/22/06	JHRAM1AE
		Dilution Factor: 1		MDL.....: 0.028		
Cobalt	ND	2.4	ug	SW846 6020	11/17-11/22/06	JHRAM1AF
		Dilution Factor: 1		MDL.....: 2.3		
Chromium	ND	2.9	ug	SW846 6020	11/17-11/22/06	JHRAM1AG
		Dilution Factor: 1		MDL.....: 2.3		
Copper	12.5	6.0	ug	SW846 6020	11/17-11/22/06	JHRAM1AH
		Dilution Factor: 1		MDL.....: 1.3		
Manganese	7.7	6.0	ug	SW846 6020	11/17-11/22/06	JHRAM1AJ
		Dilution Factor: 1		MDL.....: 2.0		
Nickel	ND	6.0	ug	SW846 6020	11/17-11/22/06	JHRAM1AK
		Dilution Factor: 1		MDL.....: 1.2		

NOTE(S) :

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: P-0783

TOTAL Metals

Lot-Sample #...: G6K020151-002

Matrix.....: AIR

Date Sampled...: 10/24/06

Date Received...: 11/02/06

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #...: 6321133						
Aluminum	146 B	240	ug	SW846 6020	11/17-11/22/06	JHRAX1AC
		Dilution Factor: 1		MDL.....: 120		
Arsenic	ND	2.9	ug	SW846 6020	11/17-11/27/06	JHRAX1AD
		Dilution Factor: 1		MDL.....: 0.89		
Cadmium	0.050 B	1.2	ug	SW846 6020	11/17-11/22/06	JHRAX1AE
		Dilution Factor: 1		MDL.....: 0.028		
Cobalt	ND	2.4	ug	SW846 6020	11/17-11/22/06	JHRAX1AF
		Dilution Factor: 1		MDL.....: 2.3		
Chromium	ND	2.9	ug	SW846 6020	11/17-11/22/06	JHRAX1AG
		Dilution Factor: 1		MDL.....: 2.3		
Copper	12.0	6.0	ug	SW846 6020	11/17-11/22/06	JHRAX1AH
		Dilution Factor: 1		MDL.....: 1.3		
Manganese	9.8	6.0	ug	SW846 6020	11/17-11/22/06	JHRAX1AJ
		Dilution Factor: 1		MDL.....: 2.0		
Nickel	ND	6.0	ug	SW846 6020	11/17-11/22/06	JHRAX1AK
		Dilution Factor: 1		MDL.....: 1.2		

NOTE(S) :

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: P-0784

TOTAL Metals

Lot-Sample #...: G6K020151-003

Matrix.....: AIR

Date Sampled...: 10/24/06

Date Received...: 11/02/06

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Prep Batch #...: 6321133							
Aluminum	299	240	ug		SW846 6020	11/17-11/22/06	JHRA21AC
		Dilution Factor: 1			MDL.....: 120		
Arsenic	ND	2.9	ug		SW846 6020	11/17-11/27/06	JHRA21AD
		Dilution Factor: 1			MDL.....: 0.89		
Cadmium	0.19 B	1.2	ug		SW846 6020	11/17-11/22/06	JHRA21AE
		Dilution Factor: 1			MDL.....: 0.028		
Cobalt	ND	2.4	ug		SW846 6020	11/17-11/22/06	JHRA21AF
		Dilution Factor: 1			MDL.....: 2.3		
Chromium	ND	2.9	ug		SW846 6020	11/17-11/22/06	JHRA21AG
		Dilution Factor: 1			MDL.....: 2.3		
Copper	24.1	6.0	ug		SW846 6020	11/17-11/22/06	JHRA21AH
		Dilution Factor: 1			MDL.....: 1.3		
Manganese	13.6	6.0	ug		SW846 6020	11/17-11/22/06	JHRA21AJ
		Dilution Factor: 1			MDL.....: 2.0		
Nickel	ND	6.0	ug		SW846 6020	11/17-11/22/06	JHRA21AK
		Dilution Factor: 1			MDL.....: 1.2		

NOTE(S) :

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: 000547

TOTAL Metals

Lot-Sample #...: G6K020151-004

Matrix.....: AIR

Date Sampled...: 10/24/06

Date Received...: 11/02/06

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #...: 6321133						
Aluminum	470	240	ug	SW846 6020	11/17-11/22/06	JHRA41AC
		Dilution Factor: 1		MDL.....: 120		
Arsenic	ND	2.9	ug	SW846 6020	11/17-11/27/06	JHRA41AD
		Dilution Factor: 1		MDL.....: 0.89		
Cadmium	0.16 B	1.2	ug	SW846 6020	11/17-11/22/06	JHRA41AE
		Dilution Factor: 1		MDL.....: 0.028		
Cobalt	ND	2.4	ug	SW846 6020	11/17-11/22/06	JHRA41AF
		Dilution Factor: 1		MDL.....: 2.3		
Chromium	ND	2.9	ug	SW846 6020	11/17-11/22/06	JHRA41AG
		Dilution Factor: 1		MDL.....: 2.3		
Copper	48.8	6.0	ug	SW846 6020	11/17-11/22/06	JHRA41AH
		Dilution Factor: 1		MDL.....: 1.3		
Manganese	19.8	6.0	ug	SW846 6020	11/17-11/22/06	JHRA41AJ
		Dilution Factor: 1		MDL.....: 2.0		
Nickel	ND	6.0	ug	SW846 6020	11/17-11/22/06	JHRA41AK
		Dilution Factor: 1		MDL.....: 1.2		

NOTE(S) :

B Estimated result. Result is less than RL.

# QC DATA ASSOCIATION SUMMARY

G6K020151

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AIR	SW846 6020		6321133	
002	AIR	SW846 6020		6321133	
003	AIR	SW846 6020		6321133	
004	AIR	SW846 6020		6321133	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: G6K020151

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>MB Lot-Sample #:</b> G6K170000-133 <b>Prep Batch #...</b> : 6321133						
Aluminum	ND	240	ug	SW846 6020	11/17-11/22/06	JJXAJ1AA
		Dilution Factor: 1				
Arsenic	ND	2.9	ug	SW846 6020	11/17-11/27/06	JJXAJ1AC
		Dilution Factor: 1				
Cadmium	ND	1.2	ug	SW846 6020	11/17-11/22/06	JJXAJ1AD
		Dilution Factor: 1				
Chromium	ND	2.9	ug	SW846 6020	11/17-11/22/06	JJXAJ1AF
		Dilution Factor: 1				
Cobalt	ND	2.4	ug	SW846 6020	11/17-11/22/06	JJXAJ1AE
		Dilution Factor: 1				
Copper	ND	6.0	ug	SW846 6020	11/17-11/22/06	JJXAJ1AG
		Dilution Factor: 1				
Manganese	ND	6.0	ug	SW846 6020	11/17-11/22/06	JJXAJ1AH
		Dilution Factor: 1				
Nickel	ND	6.0	ug	SW846 6020	11/17-11/22/06	JJXAJ1AJ
		Dilution Factor: 1				

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE DATA REPORT**

**TOTAL Metals**

Lot-Sample #...: G6K020151

Matrix.....: AIR

PARAMETER	SPIKE	MEASURED	UNITS	PERCNT	RPD	METHOD	PREPARATION-	PREP
	AMOUNT	AMOUNT		RECVRY			ANALYSIS DATE	BATCH #
Aluminum	1200	1080	ug	90		SW846 6020	11/17-11/22/06	6321133
	1200	1070	ug	89	0.27	SW846 6020	11/17-11/22/06	6321133
								Dilution Factor: 1
Arsenic	240	212	ug	88		SW846 6020	11/17-11/27/06	6321133
	240	214	ug	89	0.62	SW846 6020	11/17-11/27/06	6321133
								Dilution Factor: 1
Cadmium	240	212	ug	88		SW846 6020	11/17-11/22/06	6321133
	240	210	ug	88	0.70	SW846 6020	11/17-11/22/06	6321133
								Dilution Factor: 1
Chromium	240	220	ug	92		SW846 6020	11/17-11/22/06	6321133
	240	219	ug	91	0.51	SW846 6020	11/17-11/22/06	6321133
								Dilution Factor: 1
Cobalt	240	217	ug	91		SW846 6020	11/17-11/22/06	6321133
	240	218	ug	91	0.31	SW846 6020	11/17-11/22/06	6321133
								Dilution Factor: 1
Copper	240	222	ug	93		SW846 6020	11/17-11/22/06	6321133
	240	222	ug	93	0.03	SW846 6020	11/17-11/22/06	6321133
								Dilution Factor: 1
Manganese	240	227	ug	95		SW846 6020	11/17-11/22/06	6321133
	240	230	ug	96	1.4	SW846 6020	11/17-11/22/06	6321133
								Dilution Factor: 1
Nickel	240	217	ug	91		SW846 6020	11/17-11/22/06	6321133
	240	219	ug	91	0.61	SW846 6020	11/17-11/22/06	6321133
								Dilution Factor: 1

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**TOTAL Metals**

Lot-Sample #...: G6K020151

Matrix.....: AIR

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP- BATCH #</u>
Aluminum	90	(75 - 125)			SW846 6020	11/17-11/22/06	6321133
	89	(75 - 125)	0.27	(0-20)	SW846 6020	11/17-11/22/06	6321133
			Dilution Factor: 1				
Arsenic	88	(75 - 125)			SW846 6020	11/17-11/27/06	6321133
	89	(75 - 125)	0.62	(0-20)	SW846 6020	11/17-11/27/06	6321133
			Dilution Factor: 1				
Cadmium	88	(75 - 125)			SW846 6020	11/17-11/22/06	6321133
	88	(75 - 125)	0.70	(0-20)	SW846 6020	11/17-11/22/06	6321133
			Dilution Factor: 1				
Chromium	92	(75 - 125)			SW846 6020	11/17-11/22/06	6321133
	91	(75 - 125)	0.51	(0-20)	SW846 6020	11/17-11/22/06	6321133
			Dilution Factor: 1				
Cobalt	91	(75 - 125)			SW846 6020	11/17-11/22/06	6321133
	91	(75 - 125)	0.31	(0-20)	SW846 6020	11/17-11/22/06	6321133
			Dilution Factor: 1				
Copper	93	(75 - 125)			SW846 6020	11/17-11/22/06	6321133
	93	(75 - 125)	0.03	(0-20)	SW846 6020	11/17-11/22/06	6321133
			Dilution Factor: 1				
Manganese	95	(75 - 125)			SW846 6020	11/17-11/22/06	6321133
	96	(75 - 125)	1.4	(0-20)	SW846 6020	11/17-11/22/06	6321133
			Dilution Factor: 1				
Nickel	91	(75 - 125)			SW846 6020	11/17-11/22/06	6321133
	91	(75 - 125)	0.61	(0-20)	SW846 6020	11/17-11/22/06	6321133
			Dilution Factor: 1				

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

# AIR, 9056, Sulfate

Brown and Caldwell

Client Sample ID: P-0782

General Chemistry

Lot-Sample #...: G6K020151-001

Work Order #...: JHRAM

Matrix.....: AIR

Date Sampled...: 10/24/06

Date Received...: 11/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Sulfate	0.60	0.48	mg	SW846 9056	11/20-11/22/06	6325554
		Dilution Factor: 12		MDL.....: 0.048		

Brown and Caldwell

Client Sample ID: P-0783

General Chemistry

Lot-Sample #...: G6K020151-002  
Date Sampled...: 10/24/06

Work Order #...: JHRAX  
Date Received...: 11/02/06

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Sulfate	0.70	0.48	mg	SW846 9056	11/20-11/22/06	6325554
		Dilution Factor: 12		MDL.....: 0.048		

Brown and Caldwell

Client Sample ID: P-0784

General Chemistry

Lot-Sample #...: G6K020151-003

Work Order #...: JHRA2

Matrix.....: AIR

Date Sampled...: 10/24/06

Date Received...: 11/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Sulfate	0.81	0.48	mg	SW846 9056	11/20-11/22/06	6325554
		Dilution Factor: 12		MDL.....: 0.048		

Brown and Caldwell

Client Sample ID: 000547

General Chemistry

Lot-Sample #...: G6K020151-004  
Date Sampled...: 10/24/06

Work Order #...: JHRA4  
Date Received...: 11/02/06

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Sulfate	0.89	0.48	mg	SW846 9056	11/20-11/22/06	6325554
		Dilution Factor: 12		MDL.....: 0.048		

# QC DATA ASSOCIATION SUMMARY

G6K020151

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AIR	SW846 9056		6325554	
	AIR	CFR50J APDX J		6320612	
002	AIR	SW846 9056		6325554	
	AIR	CFR50J APDX J		6320612	
003	AIR	SW846 9056		6325554	
	AIR	CFR50J APDX J		6320612	
004	AIR	CFR50B APDX B		6320607	
	AIR	SW846 9056		6325554	
005	AIR	CFR50J APDX J		6320612	

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G6K020151

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>LIMIT</u>	<u>UNITS</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Sulfate	ND	Work Order #: JJ7G81AA		MB Lot-Sample #:	G6K210000-554	
		0.48	mg	SW846 9056	11/20-11/22/06	6325554
		Dilution Factor: 12				

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: G6K020151

Matrix.....: AIR

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Sulfate								
			WO#: JJ7G81AC-LCS/JJ7G81AD-LCSD LCS Lot-Sample#: G6K210000-554					
	4.80	4.68	mg	97		SW846 9056	11/20-11/22/06	6325554
	4.80	4.73	mg	98	1.0	SW846 9056	11/20-11/22/06	6325554
			Dilution Factor: 1					

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**General Chemistry**

Lot-Sample #...: G6K020151

Matrix.....: AIR

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Sulfate		WO#:JJ7G81AC-LCS/JJ7G81AD-LCSD			LCS	Lot-Sample#:	G6K210000-554
	97	(85 - 115)			SW846 9056	11/20-11/22/06	6325554
	98	(85 - 115)	1.0	(0-15)	SW846 9056	11/20-11/22/06	6325554
		Dilution Factor: 1					

**NOTE(S) :**

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Calculations are performed before rounding to avoid round-off errors in calculated results.

# AIR, PM-10 & TSP

Brown and Caldwell

Client Sample ID: P-0782

General Chemistry

Lot-Sample #...: G6K020151-001  
Date Sampled...: 10/24/06

Work Order #...: JHRAM  
Date Received...: 11/02/06

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Particulate Matter as PM10	0.0083	0.0001	g	CFR50J APDX J	11/07-11/15/06	6320612

Brown and Caldwell

Client Sample ID: P-0783

General Chemistry

Lot-Sample #...: G6K020151-002

Work Order #...: JHRAX

Matrix.....: AIR

Date Sampled...: 10/24/06

Date Received...: 11/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Particulate Matter as PM10	0.0111	0.0001	g	CFR50J APDX J	11/07-11/15/06	6320612

Brown and Caldwell

Client Sample ID: P-0784

General Chemistry

Lot-Sample #...: G6K020151-003

Work Order #...: JHRA2

Matrix.....: AIR

Date Sampled...: 10/24/06

Date Received...: 11/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Particulate Matter as PM10	0.0209	0.0001	g	CFR50J APDX J	11/07-11/15/06	6320612

Brown and Caldwell

Client Sample ID: 000547

General Chemistry

Lot-Sample #...: G6K020151-004  
Date Sampled...: 10/24/06

Work Order #...: JHRA4  
Date Received...: 11/02/06

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Suspended Particulates	0.0346	0.0001	g	CFR50B APDX B	11/07-11/15/06	6320607

Brown and Caldwell

Client Sample ID: P-0785

General Chemistry

Lot-Sample #...: G6K020151-005  
Date Sampled...: 10/24/06

Work Order #...: JHRCC  
Date Received...: 11/02/06

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Particulate Matter as PM10	0.0099	0.0001	g	CFR50J APDX J	11/07-11/15/06	6320612

# AIR, 6020, Metals

# **Raw Data Package**

# **ICPMS**



# STL

## STL Sacramento ICP-MS Data Review Checklist Level I and Level II

Instrument ID (Circle one): <b>M01</b> M02		Method 6020 SOP SAC-MT-0001		
File Number 06122b1	Batch Numbers G321133, G326120, G326122, G326127, G321081, G317241, G317263, G318093	Date 11/22/06	Analyst BEV	
Lot Numbers G6K020146, G6K020151, G6K090141, G6K140165, G6K210170, G6K210173, G6K210178, G6J250276, G6K060161, G6J200219, G6J230134, G6J260249, G6J300165, G6J280108, G6J010273, <del>G6K</del> G6K100129		YES	NO	NA
1. Copy of analysis protocol used included?		X		
2. ICVs & CCVs within 10% of true value or recal and rerun?		X		
3. ICB & CCBs < reporting limit or recal and rerun?		X		
4. 10 samples or less analyzed between calibration checks?		X		
5. All parameters within linear range?		X		
6. LCS/LCSD within limits?		X		
7. Prep blank value < reporting limit or all samples >20x blank?		X		
8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <130% of the Calibration Blank intensities?		X		
9. Appropriate dilution factors applied to data?		X		
10. Matrix spike and spike dup within customer defined limits?				X
11. Each batch checked for presence of internal standard in samples?		X		
12. Anomalies entered using Clouseau?				X

COMMENTS: ~~from~~ As G6K020146, G6K020151, G6K090141  
G6K140165

REVIEWED BY: <i>MEZ</i>	DATA ENTERED BY: <i>BEV</i>
DATE: 11/28/06	DATE: 11/27/06

# Dataset Report

Perkin Elmer ICPMS M01  
 User Name: JonesB  
 Computer Name: SACP317A  
 Dataset File Path: c:\elandata\dataset\061122b1\  
 Report Date/Time: Thursday, November 23, 2006 12:14:42

## The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	Rinse	17:40:43 Wed 22-Nov-06	Sample	
	Blank	17:44:50 Wed 22-Nov-06	Blank	
	Standard 1	17:48:52 Wed 22-Nov-06	Standard #1	
	ICV	17:52:32 Wed 22-Nov-06	Sample	
	ICB	17:56:18 Wed 22-Nov-06	Sample	
	LLSTD 10X	18:00:08 Wed 22-Nov-06	Sample	
	LLSTD 5X	18:03:22 Wed 22-Nov-06	Sample	
	ICSA	18:09:25 Wed 22-Nov-06	Sample	
	ICSAB	18:13:08 Wed 22-Nov-06	Sample	
	Rinse	18:17:14 Wed 22-Nov-06	Sample	
	CCV 1	18:21:01 Wed 22-Nov-06	Sample	
	CCB 1	18:24:48 Wed 22-Nov-06	Sample	
	CCV 2	18:28:34 Wed 22-Nov-06	Sample	
	CCB 2	18:32:20 Wed 22-Nov-06	Sample	
	LLSTD 5X	18:37:32 Wed 22-Nov-06	Sample	
6321133	JJXAJC	18:41:56 Wed 22-Nov-06	Sample	G6K170000-133 LCS
6321133	JJXAJL	18:45:37 Wed 22-Nov-06	Sample	G6K170000-133 LCSD
6326120	JJ71FC	18:49:19 Wed 22-Nov-06	Sample	G6K220000-120 LCS
6326120	JJ71FL	18:53:01 Wed 22-Nov-06	Sample	G6K220000-120 LCSD
	Rinse	18:56:47 Wed 22-Nov-06	Sample	
6321133	JJXAJB	19:00:32 Wed 22-Nov-06	Sample	G6K170000-133 BLK
6321133	MB CONTROL	19:04:22 Wed 22-Nov-06	Sample	
6326120	JJ71FB	19:07:31 Wed 22-Nov-06	Sample	G6K220000-120 BLK
6326120	MB CONTROL	19:11:21 Wed 22-Nov-06	Sample	
	CCV 3	19:14:32 Wed 22-Nov-06	Sample	
	CCB 3	19:18:18 Wed 22-Nov-06	Sample	
	CCV 4	19:22:05 Wed 22-Nov-06	Sample	
	CCB 4	19:25:51 Wed 22-Nov-06	Sample	
6321133	JHQ8V	19:29:36 Wed 22-Nov-06	Sample	G6K020146-1
6321133	JHQ8VP5	19:33:18 Wed 22-Nov-06	Sample	G6K020146-1 5X
6321133	JHQ8VZ	19:37:01 Wed 22-Nov-06	Sample	G6K020146-1 PS
6321133	JHQ88	19:40:44 Wed 22-Nov-06	Sample	G6K020146-2
6321133	JHQ9A	19:44:27 Wed 22-Nov-06	Sample	G6K020146-3
6321133	JHQ9F	19:48:11 Wed 22-Nov-06	Sample	G6K020146-4
6321133	JHQ9H	19:51:55 Wed 22-Nov-06	Sample	G6K020146-5
6321133	JHRAM	19:55:40 Wed 22-Nov-06	Sample	G6K020151-1
6321133	JHRAX	19:59:25 Wed 22-Nov-06	Sample	G6K020151-2
6321133	JHRA2	20:03:09 Wed 22-Nov-06	Sample	G6K020151-3
	CCV 5	20:06:55 Wed 22-Nov-06	Sample	
	CCB 5	20:10:42 Wed 22-Nov-06	Sample	
	CCV 6	20:14:28 Wed 22-Nov-06	Sample	
	CCB 6	20:18:14 Wed 22-Nov-06	Sample	
6321133	JHRA4	20:22:01 Wed 22-Nov-06	Sample	G6K020151-4
6326120	JJACE	20:25:47 Wed 22-Nov-06	Sample	G6K090141-1
6326120	JJACEP5	20:29:34 Wed 22-Nov-06	Sample	G6K090141-1 5X
6326120	JJACEZ	20:33:21 Wed 22-Nov-06	Sample	G6K090141-1 PS
6326120	JJACG	20:37:08 Wed 22-Nov-06	Sample	G6K090141-2
6326120	JJACH	20:40:56 Wed 22-Nov-06	Sample	G6K090141-3
6326120	JJACJ	20:44:44 Wed 22-Nov-06	Sample	G6K090141-4
6326120	JJACK	20:48:33 Wed 22-Nov-06	Sample	G6K090141-5

RECAL <

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6326120	JJMHA	20:52:22 Wed 22-Nov-06	Sample	G6K140165-1	
6326120	JJMHE	20:56:07 Wed 22-Nov-06	Sample	G6K140165-2	
	CCV 7	20:59:51 Wed 22-Nov-06	Sample	} <i>Perun As</i>	
	CCB 7	21:03:38 Wed 22-Nov-06	Sample		
	CCV 8	21:07:24 Wed 22-Nov-06	Sample		
	CCB 8	21:11:10 Wed 22-Nov-06	Sample		
6326120	JJMHF	21:14:55 Wed 22-Nov-06	Sample		G6K140165-3
	LLSTD 10X	21:18:43 Wed 22-Nov-06	Sample		
	LLSTD 5X	21:21:56 Wed 22-Nov-06	Sample		
	ICSA	21:28:42 Wed 22-Nov-06	Sample		
	ICSAB	21:32:24 Wed 22-Nov-06	Sample		
	ICSAB	21:37:59 Wed 22-Nov-06	Sample		
	Rinse	21:41:44 Wed 22-Nov-06	Sample		
	CCV 9	21:45:31 Wed 22-Nov-06	Sample		
	CCB 9	21:49:17 Wed 22-Nov-06	Sample		
	CCV 10	22:13:34 Wed 22-Nov-06	Sample		
	CCB 10	22:17:05 Wed 22-Nov-06	Sample		
6326122	JJ71HC	22:20:34 Wed 22-Nov-06	Sample	G6K220000-122 LCS	
6326122	JJ71HL	22:24:02 Wed 22-Nov-06	Sample	G6K220000-122 LCSD	
	Rinse	22:27:32 Wed 22-Nov-06	Sample		
6326122	JJ71HB	22:31:03 Wed 22-Nov-06	Sample	G6K220000-122 BLK	
6326122	JJ547	22:34:31 Wed 22-Nov-06	Sample	G6K210170-1	
6326122	JJ547P5	22:37:59 Wed 22-Nov-06	Sample	G6K210170-1	
6326122	JJ547X	22:41:40 Wed 22-Nov-06	Sample	G6K210170-1 DU	
6326122	JJ547Z	22:45:08 Wed 22-Nov-06	Sample	G6K210170-1	
6326122	JJ55E	22:48:36 Wed 22-Nov-06	Sample	G6K210170-2	
6326122	JJ55F	22:52:06 Wed 22-Nov-06	Sample	G6K210170-3	
	CCV 11	22:55:35 Wed 22-Nov-06	Sample		
	CCB 11	22:59:06 Wed 22-Nov-06	Sample		
	CCV 12	23:02:37 Wed 22-Nov-06	Sample		
	CCB 12	23:06:07 Wed 22-Nov-06	Sample		
6326122	JJ55G	23:09:38 Wed 22-Nov-06	Sample	G6K210170-4	
6326122	JJ55H	23:13:07 Wed 22-Nov-06	Sample	G6K210170-5	
6326122	JJ55J	23:16:38 Wed 22-Nov-06	Sample	G6K210170-6	
6326122	JJ55K	23:20:08 Wed 22-Nov-06	Sample	G6K210170-7	
6326122	JJ55L	23:23:39 Wed 22-Nov-06	Sample	G6K210170-8	
6326122	JJ55M	23:27:10 Wed 22-Nov-06	Sample	G6K210170-9	
6326122	JJ55P	23:30:42 Wed 22-Nov-06	Sample	G6K210170-10	
6326122	JJ55Q	23:34:14 Wed 22-Nov-06	Sample	G6K210170-11	
6326122	JJ55R	23:37:46 Wed 22-Nov-06	Sample	G6K210170-12	
6326122	JJ558	23:41:19 Wed 22-Nov-06	Sample	G6K210173-1	
	CCV 13	23:44:51 Wed 22-Nov-06	Sample		
	CCB 13	23:48:22 Wed 22-Nov-06	Sample		
	CCV 14	23:51:53 Wed 22-Nov-06	Sample		
	CCB 14	23:55:24 Wed 22-Nov-06	Sample		
6326122	JJ559	23:58:52 Wed 22-Nov-06	Sample	G6K210173-2	
6326122	JJ56A	00:02:18 Thu 23-Nov-06	Sample	G6K210173-3	
6326122	JJ56C	00:05:44 Thu 23-Nov-06	Sample	G6K210173-4	
6326122	JJ56D	00:09:11 Thu 23-Nov-06	Sample	G6K210173-5	
6326122	JJ56E	00:12:38 Thu 23-Nov-06	Sample	G6K210173-6	
6326122	JJ56F	00:16:06 Thu 23-Nov-06	Sample	G6K210173-7	
6326127	JJ71QC	00:19:34 Thu 23-Nov-06	Sample	G6K220000-127 LCS	
6326127	JJ71QL	00:23:02 Thu 23-Nov-06	Sample	G6K220000-127 LCSD	
	Rinse	00:26:33 Thu 23-Nov-06	Sample		
6326127	JJ71QB	00:30:04 Thu 23-Nov-06	Sample	G6K220000-127 BLK	
	CCV 15	00:33:34 Thu 23-Nov-06	Sample		
	CCB 15	00:37:05 Thu 23-Nov-06	Sample		
	CCV 16	00:40:36 Thu 23-Nov-06	Sample		
	CCB 16	00:44:07 Thu 23-Nov-06	Sample		
6326127	JJ560	00:47:36 Thu 23-Nov-06	Sample	G6K210178-1	

RECAL  
*water List*

6326127	JJ560P5	00:51:07 Thu 23-Nov-06	Sample	G6K210178-1 5X
6326127	JJ560X	00:54:36 Thu 23-Nov-06	Sample	G6K210178-1 DU
6326127	JJ560Z	00:58:05 Thu 23-Nov-06	Sample	G6K210178-1 PS
6326127	JJ563	01:01:35 Thu 23-Nov-06	Sample	G6K210178-2
6326127	JJ564	01:05:05 Thu 23-Nov-06	Sample	G6K210178-3
6326127	JJ566	01:08:35 Thu 23-Nov-06	Sample	G6K210178-4
6326127	JJ567	01:12:06 Thu 23-Nov-06	Sample	G6K210178-5
6326127	JJ569	01:15:37 Thu 23-Nov-06	Sample	G6K210178-6
6326127	JJ57A	01:19:09 Thu 23-Nov-06	Sample	G6K210178-7
RECAL	CCV 17	01:22:40 Thu 23-Nov-06	Sample	
	CCB 17	01:26:11 Thu 23-Nov-06	Sample	
	CCV 18	01:29:42 Thu 23-Nov-06	Sample	
	CCB 18	01:33:12 Thu 23-Nov-06	Sample	
6326127	JJ57C	01:36:44 Thu 23-Nov-06	Sample	G6K210178-8
6326127	JJ57D	01:40:16 Thu 23-Nov-06	Sample	G6K210178-9
6326127	JJ57E	01:43:49 Thu 23-Nov-06	Sample	G6K210178-10
6326127	JJ57F	01:47:19 Thu 23-Nov-06	Sample	G6K210178-11
6326127	JJ57G	01:50:45 Thu 23-Nov-06	Sample	G6K210178-12
6326127	JJ57H	01:54:11 Thu 23-Nov-06	Sample	G6K210178-13
6326127	JJ56G	01:57:38 Thu 23-Nov-06	Sample	G6K210173-8
6326127	JJ56H	02:01:06 Thu 23-Nov-06	Sample	G6K210173-9
6326127	JJ56J	02:04:34 Thu 23-Nov-06	Sample	G6K210173-10
6326127	JJ56K	02:08:02 Thu 23-Nov-06	Sample	G6K210173-11
	CCV 19	02:11:33 Thu 23-Nov-06	Sample	
	CCB 19	02:15:06 Thu 23-Nov-06	Sample	
	CCV 20	02:18:40 Thu 23-Nov-06	Sample	
	CCB 20	02:22:14 Thu 23-Nov-06	Sample	
6326127	JJ56L	02:25:45 Thu 23-Nov-06	Sample	G6K210173-12
6326127	JJ56M	02:29:14 Thu 23-Nov-06	Sample	G6K210173-13
6321081	JJW8JC	02:32:43 Thu 23-Nov-06	Sample	G6K170000-81 LCS
6321081	JJW8JL	02:36:12 Thu 23-Nov-06	Sample	G6K170000-81 LCSD
	Rinse	02:39:43 Thu 23-Nov-06	Sample	
6321081	JJW8JB	02:43:15 Thu 23-Nov-06	Sample	G6K170000-81 BLK
6321081	JG77J	02:46:45 Thu 23-Nov-06	Sample	G6J250276-1
6321081	JG77JP5	02:50:17 Thu 23-Nov-06	Sample	G6J250276-1 5X
6321081	JG77JZ	02:53:48 Thu 23-Nov-06	Sample	G6J250276-1 PS
6321081	JG77L	02:57:18 Thu 23-Nov-06	Sample	G6J250276-2
	CCV 21	03:00:50 Thu 23-Nov-06	Sample	
	CCB 21	03:04:24 Thu 23-Nov-06	Sample	
	CCV 22	03:07:58 Thu 23-Nov-06	Sample	
	CCB 22	03:11:31 Thu 23-Nov-06	Sample	
6321081	JG77M	03:15:04 Thu 23-Nov-06	Sample	G6J250276-3
6321081	JG77Q	03:18:35 Thu 23-Nov-06	Sample	G6J250276-4
6321081	JG77T	03:22:07 Thu 23-Nov-06	Sample	G6J250276-5
6321081	JG77V	03:25:39 Thu 23-Nov-06	Sample	G6J250276-6
6321081	JG77X	03:29:08 Thu 23-Nov-06	Sample	G6J250276-7
6321081	JG77Z	03:32:34 Thu 23-Nov-06	Sample	G6J250276-8
6321081	JH244	03:36:00 Thu 23-Nov-06	Sample	G6K060161-1
6321081	JH249	03:39:26 Thu 23-Nov-06	Sample	G6K060161-2
6321081	JH25C	03:42:53 Thu 23-Nov-06	Sample	G6K060161-3
6321081	JH25D	03:46:20 Thu 23-Nov-06	Sample	G6K060161-4
RECAL	CCV 23	03:49:50 Thu 23-Nov-06	Sample	Zn out
	CCB 23	03:53:24 Thu 23-Nov-06	Sample	
	CCV 24	03:56:57 Thu 23-Nov-06	Sample	
	CCB 24	04:00:31 Thu 23-Nov-06	Sample	
6321081	JH25J	04:04:02 Thu 23-Nov-06	Sample	G6K060161-5
6321081	JH25K	04:07:30 Thu 23-Nov-06	Sample	G6K060161-6
6321081	JH25L	04:10:58 Thu 23-Nov-06	Sample	G6K060161-7
6321081	JH25N	04:14:27 Thu 23-Nov-06	Sample	G6K060161-8
6317241	JJKE8C	04:17:56 Thu 23-Nov-06	Sample	G6K130000-241 LCS

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6317241	JJKE8L	04:21:26 Thu 23-Nov-06	Sample	G6K130000-241 LCSD	
	Rinse	04:24:57 Thu 23-Nov-06	Sample		
6317241	JJKE8B	04:28:29 Thu 23-Nov-06	Sample	G6K130000-241 BLK	
	CCV 25	04:32:01 Thu 23-Nov-06	Sample		
	CCB 25	04:35:35 Thu 23-Nov-06	Sample		
	CCV 26	04:39:08 Thu 23-Nov-06	Sample		
	CCB 26	04:42:42 Thu 23-Nov-06	Sample		
6317241	JGWWP	04:46:14 Thu 23-Nov-06	Sample	G6J200219-1	
6317241	JGWWPP5	04:49:43 Thu 23-Nov-06	Sample	G6J200219-1 5X	
6317241	JGWWPZ	04:53:13 Thu 23-Nov-06	Sample	G6J200219-1 PS	
6317241	JGWWX	04:56:43 Thu 23-Nov-06	Sample	G6J200219-2	
6317241	JGWW2	05:00:14 Thu 23-Nov-06	Sample	G6J200219-3	
6317241	JGWXD	05:03:45 Thu 23-Nov-06	Sample	G6J200219-4	
6317241	JGWXF	05:07:16 Thu 23-Nov-06	Sample	G6J200219-5	
6317241	JGWXG	05:10:48 Thu 23-Nov-06	Sample	G6J200219-6	
6317241	JGWXL	05:14:17 Thu 23-Nov-06	Sample	G6J200219-7	
6317241	JGWXN	05:17:43 Thu 23-Nov-06	Sample	G6J200219-8	
	CCV 27	05:21:12 Thu 23-Nov-06	Sample		
	CCB 27	05:24:46 Thu 23-Nov-06	Sample		
	CCV 28	05:28:20 Thu 23-Nov-06	Sample		
	CCB 28	05:31:53 Thu 23-Nov-06	Sample		
6317241	JG3D8	05:35:23 Thu 23-Nov-06	Sample	G6J230134-1	
6317241	JG3EA	05:38:50 Thu 23-Nov-06	Sample	G6J230134-2	
6317241	JG3EC	05:42:17 Thu 23-Nov-06	Sample	G6J230134-3	
6317241	JG3ED	05:45:44 Thu 23-Nov-06	Sample	G6J230134-4	
6317241	JG3EE	05:49:12 Thu 23-Nov-06	Sample	G6J230134-5	
6317241	JG3EF	05:52:39 Thu 23-Nov-06	Sample	G6J230134-6	
6317241	JG3EH	05:56:08 Thu 23-Nov-06	Sample	G6J230134-7	
6317241	JG3EJ	05:59:37 Thu 23-Nov-06	Sample	G6J230134-8	
6317263	JJKH2C	06:03:06 Thu 23-Nov-06	Sample	G6K130000-263 LCS	
6317263	JJKH2L	06:06:37 Thu 23-Nov-06	Sample	G6K130000-263 LCSD	
	CCV 29	06:10:09 Thu 23-Nov-06	Sample		
	CCB 29	06:13:43 Thu 23-Nov-06	Sample		
	CCV 30	06:17:14 Thu 23-Nov-06	Sample		
	CCB 30	06:20:42 Thu 23-Nov-06	Sample		
6317263	JJKH2B	06:24:12 Thu 23-Nov-06	Sample	G6K130000-263 BLK	
6317263	JHA94	06:27:42 Thu 23-Nov-06	Sample	G6J260249-1	
6317263	JHA94P5	06:31:11 Thu 23-Nov-06	Sample	G6J260249-1 5X	
6317263	JHA94Z	06:34:41 Thu 23-Nov-06	Sample	G6J260249-1 PS	
6317263	JHA95	06:38:12 Thu 23-Nov-06	Sample	G6J260249-2	
6317263	JHA96	06:41:42 Thu 23-Nov-06	Sample	G6J260249-3	
6317263	JHA97	06:45:14 Thu 23-Nov-06	Sample	G6J260249-4	
6317263	JHA99	06:48:45 Thu 23-Nov-06	Sample	G6J260249-5	
6317263	JHCAA	06:52:14 Thu 23-Nov-06	Sample	G6J260249-6	
6317263	JHCAC	06:55:41 Thu 23-Nov-06	Sample	G6J260249-7	
	CCV 31	06:59:08 Thu 23-Nov-06	Sample		
	CCB 31	07:02:36 Thu 23-Nov-06	Sample		
	CCV 32	07:06:04 Thu 23-Nov-06	Sample		
	CCB 32	07:09:32 Thu 23-Nov-06	Sample		
6317263	JHCAD	07:13:00 Thu 23-Nov-06	Sample	G6J260249-8	
6317263	JHJKC	07:16:28 Thu 23-Nov-06	Sample	G6J300165-1	
6317263	JHJKF	07:19:56 Thu 23-Nov-06	Sample	G6J300165-2	
6317263	JHJKG	07:23:24 Thu 23-Nov-06	Sample	G6J300165-3	
6317263	JHJKH	07:26:53 Thu 23-Nov-06	Sample	G6J300165-4	
6317263	JHJKJ	07:30:22 Thu 23-Nov-06	Sample	G6J300165-5	
6317263	JHJKK	07:33:52 Thu 23-Nov-06	Sample	G6J300165-6	
6317263	JHJKL	07:37:21 Thu 23-Nov-06	Sample	G6J300165-7	
6317263	JHJKN	07:40:52 Thu 23-Nov-06	Sample	G6J300165-8	
	CCV 33	07:44:21 Thu 23-Nov-06	Sample		
	CCB 33	07:47:49 Thu 23-Nov-06	Sample		

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	CCV 34	07:51:17 Thu 23-Nov-06	Sample	
	CCB 34	07:54:45 Thu 23-Nov-06	Sample	
6318093	JJL12C	07:58:15 Thu 23-Nov-06	Sample	G6K140000-93 LCS
6318093	JJL12L	08:01:46 Thu 23-Nov-06	Sample	G6K140000-93 LCSD
	Rinse	08:05:18 Thu 23-Nov-06	Sample	
6318093	JJL12B	08:08:50 Thu 23-Nov-06	Sample	G6K140000-93 BLK
6318093	JHGNW	08:12:20 Thu 23-Nov-06	Sample	G6J280108-5
6318093	JHGNWP5	08:15:47 Thu 23-Nov-06	Sample	G6J280108-5 5X
6318093	JHGNWZ	08:19:15 Thu 23-Nov-06	Sample	G6J280108-5 PS
6318093	JHGNX	08:22:43 Thu 23-Nov-06	Sample	G6J280108-6
6318093	JHGN0	08:26:11 Thu 23-Nov-06	Sample	G6J280108-7
6318093	JHGN1	08:29:40 Thu 23-Nov-06	Sample	G6J280108-8
	CCV 35	08:33:09 Thu 23-Nov-06	Sample	
	CCB 35	08:36:37 Thu 23-Nov-06	Sample	
	CCV 36	08:40:05 Thu 23-Nov-06	Sample	
	CCB 36	08:43:33 Thu 23-Nov-06	Sample	
6318093	JHPT4	08:47:01 Thu 23-Nov-06	Sample	G6K010273-1
6318093	JHPT5	08:50:32 Thu 23-Nov-06	Sample	G6K010273-2
6318093	JHPT7	08:54:05 Thu 23-Nov-06	Sample	G6K010273-3
6318093	JHPT8	08:57:38 Thu 23-Nov-06	Sample	G6K010273-4
6318093	JHPT9	09:01:11 Thu 23-Nov-06	Sample	G6K010273-5
6318093	JHPVA	09:04:45 Thu 23-Nov-06	Sample	G6K010273-6
6318093	JHPVC	09:08:17 Thu 23-Nov-06	Sample	G6K010273-7
6318093	JHPVD	09:11:48 Thu 23-Nov-06	Sample	G6K010273-8
6318093	JJERQ	09:15:20 Thu 23-Nov-06	Sample	G6K100129-1
6318093	JJERR	09:18:52 Thu 23-Nov-06	Sample	G6K100129-2
	CCV 37	09:22:21 Thu 23-Nov-06	Sample	
	CCB 37	09:25:49 Thu 23-Nov-06	Sample	
	CCV 38	09:29:17 Thu 23-Nov-06	Sample	
	CCB 38	09:32:45 Thu 23-Nov-06	Sample	
6318093	JJERT	09:36:16 Thu 23-Nov-06	Sample	G6K100129-3
6318093	JJERV	09:39:48 Thu 23-Nov-06	Sample	G6K100129-4
6318093	JJERW	09:43:21 Thu 23-Nov-06	Sample	G6K100129-5
6318093	JJERX	09:46:55 Thu 23-Nov-06	Sample	G6K100129-6
6318093	JJER1	09:50:25 Thu 23-Nov-06	Sample	G6K100129-7
6318093	JJER2	09:53:52 Thu 23-Nov-06	Sample	G6K100129-8
	CCV 39	09:57:19 Thu 23-Nov-06	Sample	
	CCB 39	10:00:47 Thu 23-Nov-06	Sample	

## STL Sacramento

## RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 11/27/06 13:44:47

File ID: 061122B1

Analyst: votawb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
1	Blank				1.0	11/22/06 17:44	<input type="checkbox"/>
2	Standard 1				1.0	11/22/06 17:48	<input type="checkbox"/>
3	ICV				1.0	11/22/06 17:52	<input type="checkbox"/>
4	ICB				1.0	11/22/06 17:56	<input type="checkbox"/>
5	LLSTD 10X				10.0	11/22/06 18:00	<input type="checkbox"/>
6	LLSTD 5X				5.0	11/22/06 18:03	<input type="checkbox"/>
7	ICSA				1.0	11/22/06 18:09	<input type="checkbox"/>
8	ICSAB				1.0	11/22/06 18:13	<input type="checkbox"/>
9	Rinse				1.0	11/22/06 18:17	<input type="checkbox"/>
10	CCV 1				1.0	11/22/06 18:21	<input type="checkbox"/>
11	CCB 1				1.0	11/22/06 18:24	<input type="checkbox"/>
14	CCV 2				1.0	11/22/06 18:28	<input type="checkbox"/>
15	CCB 2				1.0	11/22/06 18:32	<input type="checkbox"/>
16	LLSTD 5X				5.0	11/22/06 18:37	<input type="checkbox"/>
17	JJXAJC	G6K170000	6321133	2A	1.0	11/22/06 18:41	<input type="checkbox"/>
18	JJXAJL	G6K170000	6321133	2A	1.0	11/22/06 18:45	<input type="checkbox"/>
19	JJ71FC	G6K220000	6326120	2A	1.0	11/22/06 18:49	<input type="checkbox"/>
20	JJ71FL	G6K220000	6326120	2A	1.0	11/22/06 18:53	<input type="checkbox"/>
21	Rinse				1.0	11/22/06 18:56	<input type="checkbox"/>
22	JJXAJB	G6K170000	6321133	2A	1.0	11/22/06 19:00	<input type="checkbox"/>
23	MB CONTRO				1.0	11/22/06 19:04	<input type="checkbox"/>
24	JJ71FB	G6K220000	6326120	2A	1.0	11/22/06 19:07	<input type="checkbox"/>
25	MB CONTRO				1.0	11/22/06 19:11	<input type="checkbox"/>
26	CCV 3				1.0	11/22/06 19:14	<input type="checkbox"/>
27	CCB 3				1.0	11/22/06 19:18	<input type="checkbox"/>
28	CCV 4				1.0	11/22/06 19:22	<input type="checkbox"/>
29	CCB 4				1.0	11/22/06 19:25	<input type="checkbox"/>
30	JHQ8V	G6K020146-1	6321133	2A	1.0	11/22/06 19:29	<input type="checkbox"/>
31	JHQ8VP5	G6K020146	6321133		5.0	11/22/06 19:33	<input type="checkbox"/>
32	JHQ8VZ	G6K020146-1	6321133		1.0	11/22/06 19:37	<input type="checkbox"/>
33	JHQ88	G6K020146-2	6321133	2A	1.0	11/22/06 19:40	<input type="checkbox"/>
34	JHQ9A	G6K020146-3	6321133	2A	1.0	11/22/06 19:44	<input type="checkbox"/>
35	JHQ9F	G6K020146-4	6321133	2A	1.0	11/22/06 19:48	<input type="checkbox"/>
36	JHQ9H	G6K020146-5	6321133	2A	1.0	11/22/06 19:51	<input type="checkbox"/>
37	JHRAM	G6K020151-1	6321133	2A	1.0	11/22/06 19:55	<input type="checkbox"/>
38	JHRAX	G6K020151-2	6321133	2A	1.0	11/22/06 19:59	<input type="checkbox"/>
39	JHRA2	G6K020151-3	6321133	2A	1.0	11/22/06 20:03	<input type="checkbox"/>
40	CCV 5				1.0	11/22/06 20:06	<input type="checkbox"/>
41	CCB 5				1.0	11/22/06 20:10	<input type="checkbox"/>
42	CCV 6				1.0	11/22/06 20:14	<input type="checkbox"/>
43	CCB 6				1.0	11/22/06 20:18	<input type="checkbox"/>
44	JHRA4	G6K020151-4	6321133	2A	1.0	11/22/06 20:22	<input type="checkbox"/>
45	JJACE	G6K090141-1	6326120	2A	1.0	11/22/06 20:25	<input type="checkbox"/>
46	JJACEP5	G6K090141	6326120		5.0	11/22/06 20:29	<input type="checkbox"/>
47	JJACEZ	G6K090141-1	6326120		1.0	11/22/06 20:33	<input type="checkbox"/>
48	JJACG	G6K090141-2	6326120	2A	1.0	11/22/06 20:37	<input type="checkbox"/>

## STL Sacramento

## RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 11/27/06 13:44:47

File ID: 061122B1

Analyst: votawb

#	Sample ID	Lot No.	Batch	DF	DF	Analyzed Date	Comment	Q
49	JJACH	G6K090141-3	6326120	2A	1.0	11/22/06 20:40		<input type="checkbox"/>
50	JJACJ	G6K090141-4	6326120	2A	1.0	11/22/06 20:44		<input type="checkbox"/>
51	JJACK	G6K090141-5	6326120	2A	1.0	11/22/06 20:48		<input type="checkbox"/>
52	JJMHA	G6K140165-1	6326120	2A	1.0	11/22/06 20:52		<input type="checkbox"/>
53	JJMHE	G6K140165-2	6326120	2A	1.0	11/22/06 20:56		<input type="checkbox"/>
54	CCV 7				1.0	11/22/06 20:59		<input type="checkbox"/>
55	CCB 7				1.0	11/22/06 21:03		<input type="checkbox"/>
56	CCV 8				1.0	11/22/06 21:07		<input type="checkbox"/>
57	CCB 8				1.0	11/22/06 21:11		<input type="checkbox"/>
58	JJMHF	G6K140165-3	6326120	2A	1.0	11/22/06 21:14		<input type="checkbox"/>
59	LLSTD 10X				10.0	11/22/06 21:18		<input type="checkbox"/>
60	LLSTD 5X				5.0	11/22/06 21:21		<input type="checkbox"/>
61	ICSA				1.0	11/22/06 21:28		<input type="checkbox"/>
62	ICSAB				1.0	11/22/06 21:32		<input type="checkbox"/>
63	ICSAB				1.0	11/22/06 21:37		<input type="checkbox"/>
64	Rinse				1.0	11/22/06 21:41		<input type="checkbox"/>
65	CCV 9				1.0	11/22/06 21:45		<input type="checkbox"/>
66	CCB 9				1.0	11/22/06 21:49		<input type="checkbox"/>
69	CCV 10				1.0	11/22/06 22:13		<input type="checkbox"/>
70	CCB 10				1.0	11/22/06 22:17		<input type="checkbox"/>
71	JJ71HC	G6K220000	6326122	2A	1.0	11/22/06 22:20		<input type="checkbox"/>
72	JJ71HL	G6K220000	6326122	2A	1.0	11/22/06 22:24		<input type="checkbox"/>
73	Rinse				1.0	11/22/06 22:27		<input type="checkbox"/>
74	JJ71HB	G6K220000	6326122	2A	1.0	11/22/06 22:31		<input type="checkbox"/>
75	JJ547	G6K210170-1	6326122	2A	1.0	11/22/06 22:34		<input type="checkbox"/>
76	JJ547P5	G6K210170	6326122		5.0	11/22/06 22:37		<input type="checkbox"/>
77	JJ547X	G6K210170-1	6326122	2A	1.0	11/22/06 22:41		<input type="checkbox"/>
78	JJ547Z	G6K210170-1	6326122		1.0	11/22/06 22:45		<input type="checkbox"/>
79	JJ55E	G6K210170-2	6326122	2A	1.0	11/22/06 22:48		<input type="checkbox"/>
80	JJ55F	G6K210170-3	6326122	2A	1.0	11/22/06 22:52		<input type="checkbox"/>
81	CCV 11				1.0	11/22/06 22:55		<input type="checkbox"/>
82	CCB 11				1.0	11/22/06 22:59		<input type="checkbox"/>
83	CCV 12				1.0	11/22/06 23:02		<input type="checkbox"/>
84	CCB 12				1.0	11/22/06 23:06		<input type="checkbox"/>
85	JJ55G	G6K210170-4	6326122	2A	1.0	11/22/06 23:09		<input type="checkbox"/>
86	JJ55H	G6K210170-5	6326122	2A	1.0	11/22/06 23:13		<input type="checkbox"/>
87	JJ55J	G6K210170-6	6326122	2A	1.0	11/22/06 23:16		<input type="checkbox"/>
88	JJ55K	G6K210170-7	6326122	2A	1.0	11/22/06 23:20		<input type="checkbox"/>
89	JJ55L	G6K210170-8	6326122	2A	1.0	11/22/06 23:23		<input type="checkbox"/>
90	JJ55M	G6K210170-9	6326122	2A	1.0	11/22/06 23:27		<input type="checkbox"/>
91	JJ55P	G6K210170-10	6326122	2A	1.0	11/22/06 23:30		<input type="checkbox"/>
92	JJ55Q	G6K210170-11	6326122	2A	1.0	11/22/06 23:34		<input type="checkbox"/>
93	JJ55R	G6K210170-12	6326122	2A	1.0	11/22/06 23:37		<input type="checkbox"/>
94	JJ558	G6K210173-1	6326122	2A	1.0	11/22/06 23:41		<input type="checkbox"/>
95	CCV 13				1.0	11/22/06 23:44		<input type="checkbox"/>
96	CCB 13				1.0	11/22/06 23:48		<input type="checkbox"/>

## STL Sacramento

## RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 11/27/06 13:44:47

File ID: 061122B1

Analyst: votawb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
97	CCV 14				1.0	11/22/06 23:51	<input type="checkbox"/>
98	CCB 14				1.0	11/22/06 23:55	<input type="checkbox"/>
99	JJ559	G6K210173-2	6326122	2A	1.0	11/22/06 23:58	<input type="checkbox"/>
100	JJ56A	G6K210173-3	6326122	2A	1.0	11/23/06 00:02	<input type="checkbox"/>
101	JJ56C	G6K210173-4	6326122	2A	1.0	11/23/06 00:05	<input type="checkbox"/>
102	JJ56D	G6K210173-5	6326122	2A	1.0	11/23/06 00:09	<input type="checkbox"/>
103	JJ56E	G6K210173-6	6326122	2A	1.0	11/23/06 00:12	<input type="checkbox"/>
104	JJ56F	G6K210173-7	6326122	2A	1.0	11/23/06 00:16	<input type="checkbox"/>
105	JJ71QC	G6K220000	6326127	2A	1.0	11/23/06 00:19	<input type="checkbox"/>
106	JJ71QL	G6K220000	6326127	2A	1.0	11/23/06 00:23	<input type="checkbox"/>
107	Rinse				1.0	11/23/06 00:26	<input type="checkbox"/>
108	JJ71QB	G6K220000	6326127	2A	1.0	11/23/06 00:30	<input type="checkbox"/>
109	CCV 15				1.0	11/23/06 00:33	<input type="checkbox"/>
110	CCB 15				1.0	11/23/06 00:37	<input type="checkbox"/>
111	CCV 16				1.0	11/23/06 00:40	<input type="checkbox"/>
112	CCB 16				1.0	11/23/06 00:44	<input type="checkbox"/>
113	JJ560	G6K210178-1	6326127	2A	1.0	11/23/06 00:47	<input type="checkbox"/>
114	JJ560P5	G6K210178	6326127		5.0	11/23/06 00:51	<input type="checkbox"/>
115	JJ560X	G6K210178-1	6326127	2A	1.0	11/23/06 00:54	<input type="checkbox"/>
116	JJ560Z	G6K210178-1	6326127		1.0	11/23/06 00:58	<input type="checkbox"/>
117	JJ563	G6K210178-2	6326127	2A	1.0	11/23/06 01:01	<input type="checkbox"/>
118	JJ564	G6K210178-3	6326127	2A	1.0	11/23/06 01:05	<input type="checkbox"/>
119	JJ566	G6K210178-4	6326127	2A	1.0	11/23/06 01:08	<input type="checkbox"/>
120	JJ567	G6K210178-5	6326127	2A	1.0	11/23/06 01:12	<input type="checkbox"/>
121	JJ569	G6K210178-6	6326127	2A	1.0	11/23/06 01:15	<input type="checkbox"/>
122	JJ57A	G6K210178-7	6326127	2A	1.0	11/23/06 01:19	<input type="checkbox"/>
123	CCV 17				1.0	11/23/06 01:22	<input type="checkbox"/>
124	CCB 17				1.0	11/23/06 01:26	<input type="checkbox"/>
127	CCV 18				1.0	11/23/06 01:29	<input type="checkbox"/>
128	CCB 18				1.0	11/23/06 01:33	<input type="checkbox"/>
129	JJ57C	G6K210178-8	6326127	2A	1.0	11/23/06 01:36	<input type="checkbox"/>
130	JJ57D	G6K210178-9	6326127	2A	1.0	11/23/06 01:40	<input type="checkbox"/>
131	JJ57E	G6K210178-10	6326127	2A	1.0	11/23/06 01:43	<input type="checkbox"/>
132	JJ57F	G6K210178-11	6326127	2A	1.0	11/23/06 01:47	<input type="checkbox"/>
133	JJ57G	G6K210178-12	6326127	2A	1.0	11/23/06 01:50	<input type="checkbox"/>
134	JJ57H	G6K210178-13	6326127	2A	1.0	11/23/06 01:54	<input type="checkbox"/>
135	JJ56G	G6K210173-8	6326127	2A	1.0	11/23/06 01:57	<input type="checkbox"/>
136	JJ56H	G6K210173-9	6326127	2A	1.0	11/23/06 02:01	<input type="checkbox"/>
137	JJ56J	G6K210173-10	6326127	2A	1.0	11/23/06 02:04	<input type="checkbox"/>
138	JJ56K	G6K210173-11	6326127	2A	1.0	11/23/06 02:08	<input type="checkbox"/>
139	CCV 19				1.0	11/23/06 02:11	<input type="checkbox"/>
140	CCB 19				1.0	11/23/06 02:15	<input type="checkbox"/>
141	CCV 20				1.0	11/23/06 02:18	<input type="checkbox"/>
142	CCB 20				1.0	11/23/06 02:22	<input type="checkbox"/>
143	JJ56L	G6K210173-12	6326127	2A	1.0	11/23/06 02:25	<input type="checkbox"/>
144	JJ56M	G6K210173-13	6326127	2A	1.0	11/23/06 02:29	<input type="checkbox"/>

STL Sacramento

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 11/27/06 13:44:47

File ID: 061122B1

Analyst: votawb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
145	JJW8JC	G6K170000	6321081	2A	1.0	11/23/06 02:32	<input type="checkbox"/>
146	JJW8JL	G6K170000	6321081	2A	1.0	11/23/06 02:36	<input type="checkbox"/>
147	Rinse				1.0	11/23/06 02:39	<input type="checkbox"/>
148	JJW8JB	G6K170000	6321081	2A	1.0	11/23/06 02:43	<input type="checkbox"/>
149	JG77J	G6J250276-1	6321081	2A	1.0	11/23/06 02:46	<input type="checkbox"/>
150	JG77JP5	G6J250276	6321081		5.0	11/23/06 02:50	<input type="checkbox"/>
151	JG77JZ	G6J250276-1	6321081		1.0	11/23/06 02:53	<input type="checkbox"/>
152	JG77L	G6J250276-2	6321081	2A	1.0	11/23/06 02:57	<input type="checkbox"/>
153	CCV 21				1.0	11/23/06 03:00	<input type="checkbox"/>
154	CCB 21				1.0	11/23/06 03:04	<input type="checkbox"/>
155	CCV 22				1.0	11/23/06 03:07	<input type="checkbox"/>
156	CCB 22				1.0	11/23/06 03:11	<input type="checkbox"/>
157	JG77M	G6J250276-3	6321081	2A	1.0	11/23/06 03:15	<input type="checkbox"/>
158	JG77Q	G6J250276-4	6321081	2A	1.0	11/23/06 03:18	<input type="checkbox"/>
159	JG77T	G6J250276-5	6321081	2A	1.0	11/23/06 03:22	<input type="checkbox"/>
160	JG77V	G6J250276-6	6321081	2A	1.0	11/23/06 03:25	<input type="checkbox"/>
161	JG77X	G6J250276-7	6321081	2A	1.0	11/23/06 03:29	<input type="checkbox"/>
162	JG77Z	G6J250276-8	6321081	2A	1.0	11/23/06 03:32	<input type="checkbox"/>
163	JH244	G6K060161-1	6321081	2A	1.0	11/23/06 03:36	<input type="checkbox"/>
164	JH249	G6K060161-2	6321081	2A	1.0	11/23/06 03:39	<input type="checkbox"/>
165	JH25C	G6K060161-3	6321081	2A	1.0	11/23/06 03:42	<input type="checkbox"/>
166	JH25D	G6K060161-4	6321081	2A	1.0	11/23/06 03:46	<input type="checkbox"/>
167	CCV 23				1.0	11/23/06 03:49	<input type="checkbox"/>
168	CCB 23				1.0	11/23/06 03:53	<input type="checkbox"/>
171	CCV 24				1.0	11/23/06 03:56	<input type="checkbox"/>
172	CCB 24				1.0	11/23/06 04:00	<input type="checkbox"/>
173	JH25J	G6K060161-5	6321081	2A	1.0	11/23/06 04:04	<input type="checkbox"/>
174	JH25K	G6K060161-6	6321081	2A	1.0	11/23/06 04:07	<input type="checkbox"/>
175	JH25L	G6K060161-7	6321081	2A	1.0	11/23/06 04:10	<input type="checkbox"/>
176	JH25N	G6K060161-8	6321081	2A	1.0	11/23/06 04:14	<input type="checkbox"/>
177	JJKE8C	G6K130000	6317241	2A	1.0	11/23/06 04:17	<input type="checkbox"/>
178	JJKE8L	G6K130000	6317241	2A	1.0	11/23/06 04:21	<input type="checkbox"/>
179	Rinse				1.0	11/23/06 04:24	<input type="checkbox"/>
180	JJKE8B	G6K130000	6317241	2A	1.0	11/23/06 04:28	<input type="checkbox"/>
181	CCV 25				1.0	11/23/06 04:32	<input type="checkbox"/>
182	CCB 25				1.0	11/23/06 04:35	<input type="checkbox"/>
183	CCV 26				1.0	11/23/06 04:39	<input type="checkbox"/>
184	CCB 26				1.0	11/23/06 04:42	<input type="checkbox"/>
185	JGWWP	G6J200219-1	6317241	2A	1.0	11/23/06 04:46	<input type="checkbox"/>
186	JGWWPP5	G6J200219	6317241		5.0	11/23/06 04:49	<input type="checkbox"/>
187	JGWWPZ	G6J200219-1	6317241		1.0	11/23/06 04:53	<input type="checkbox"/>
188	JGWWX	G6J200219-2	6317241	2A	1.0	11/23/06 04:56	<input type="checkbox"/>
189	JGWW2	G6J200219-3	6317241	2A	1.0	11/23/06 05:00	<input type="checkbox"/>
190	JGWXD	G6J200219-4	6317241	2A	1.0	11/23/06 05:03	<input type="checkbox"/>
191	JGWXF	G6J200219-5	6317241	2A	1.0	11/23/06 05:07	<input type="checkbox"/>
192	JGWXG	G6J200219-6	6317241	2A	1.0	11/23/06 05:10	<input type="checkbox"/>

## STL Sacramento

## RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 11/27/06 13:44:47

File ID: 061122B1

Analyst: votawb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
193	JGWXL	G6J200219-7	6317241	2A	1.0	11/23/06 05:14	<input type="checkbox"/>
194	JGWXN	G6J200219-8	6317241	2A	1.0	11/23/06 05:17	<input type="checkbox"/>
195	CCV 27				1.0	11/23/06 05:21	<input type="checkbox"/>
196	CCB 27				1.0	11/23/06 05:24	<input type="checkbox"/>
197	CCV 28				1.0	11/23/06 05:28	<input type="checkbox"/>
198	CCB 28				1.0	11/23/06 05:31	<input type="checkbox"/>
199	JG3D8	G6J230134-1	6317241	2A	1.0	11/23/06 05:35	<input type="checkbox"/>
200	JG3EA	G6J230134-2	6317241	2A	1.0	11/23/06 05:38	<input type="checkbox"/>
201	JG3EC	G6J230134-3	6317241	2A	1.0	11/23/06 05:42	<input type="checkbox"/>
202	JG3ED	G6J230134-4	6317241	2A	1.0	11/23/06 05:45	<input type="checkbox"/>
203	JG3EE	G6J230134-5	6317241	2A	1.0	11/23/06 05:49	<input type="checkbox"/>
204	JG3EF	G6J230134-6	6317241	2A	1.0	11/23/06 05:52	<input type="checkbox"/>
205	JG3EH	G6J230134-7	6317241	2A	1.0	11/23/06 05:56	<input type="checkbox"/>
206	JG3EJ	G6J230134-8	6317241	2A	1.0	11/23/06 05:59	<input type="checkbox"/>
207	JJKH2C	G6K130000	6317263	2A	1.0	11/23/06 06:03	<input type="checkbox"/>
208	JJKH2L	G6K130000	6317263	2A	1.0	11/23/06 06:06	<input type="checkbox"/>
209	CCV 29				1.0	11/23/06 06:10	<input type="checkbox"/>
210	CCB 29				1.0	11/23/06 06:13	<input type="checkbox"/>
211	CCV 30				1.0	11/23/06 06:17	<input type="checkbox"/>
212	CCB 30				1.0	11/23/06 06:20	<input type="checkbox"/>
213	JJKH2B	G6K130000	6317263	2A	1.0	11/23/06 06:24	<input type="checkbox"/>
214	JHA94	G6J260249-1	6317263	2A	1.0	11/23/06 06:27	<input type="checkbox"/>
215	JHA94P5	G6J260249	6317263		5.0	11/23/06 06:31	<input type="checkbox"/>
216	JHA94Z	G6J260249-1	6317263		1.0	11/23/06 06:34	<input type="checkbox"/>
217	JHA95	G6J260249-2	6317263	2A	1.0	11/23/06 06:38	<input type="checkbox"/>
218	JHA96	G6J260249-3	6317263	2A	1.0	11/23/06 06:41	<input type="checkbox"/>
219	JHA97	G6J260249-4	6317263	2A	1.0	11/23/06 06:45	<input type="checkbox"/>
220	JHA99	G6J260249-5	6317263	2A	1.0	11/23/06 06:48	<input type="checkbox"/>
221	JHCAA	G6J260249-6	6317263	2A	1.0	11/23/06 06:52	<input type="checkbox"/>
222	JHCAC	G6J260249-7	6317263	2A	1.0	11/23/06 06:55	<input type="checkbox"/>
223	CCV 31				1.0	11/23/06 06:59	<input type="checkbox"/>
224	CCB 31				1.0	11/23/06 07:02	<input type="checkbox"/>
227	CCV 32				1.0	11/23/06 07:06	<input type="checkbox"/>
228	CCB 32				1.0	11/23/06 07:09	<input type="checkbox"/>
229	JHCAD	G6J260249-8	6317263	2A	1.0	11/23/06 07:13	<input type="checkbox"/>
230	JHJKC	G6J300165-1	6317263	2A	1.0	11/23/06 07:16	<input type="checkbox"/>
231	JHJKF	G6J300165-2	6317263	2A	1.0	11/23/06 07:19	<input type="checkbox"/>
232	JHJKG	G6J300165-3	6317263	2A	1.0	11/23/06 07:23	<input type="checkbox"/>
233	JHJKH	G6J300165-4	6317263	2A	1.0	11/23/06 07:26	<input type="checkbox"/>
234	JHJKJ	G6J300165-5	6317263	2A	1.0	11/23/06 07:30	<input type="checkbox"/>
235	JHJKK	G6J300165-6	6317263	2A	1.0	11/23/06 07:33	<input type="checkbox"/>
236	JHJKL	G6J300165-7	6317263	2A	1.0	11/23/06 07:37	<input type="checkbox"/>
237	JHJKN	G6J300165-8	6317263	2A	1.0	11/23/06 07:40	<input type="checkbox"/>
238	CCV 33				1.0	11/23/06 07:44	<input type="checkbox"/>
239	CCB 33				1.0	11/23/06 07:47	<input type="checkbox"/>
240	CCV 34				1.0	11/23/06 07:51	<input type="checkbox"/>

## STL Sacramento

## RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 11/27/06 13:44:47

File ID: 061122B1

Analyst: votawb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
241	CCB 34				1.0	11/23/06 07:54	<input type="checkbox"/>
242	JJL12C	G6K140000	6318093	2A	1.0	11/23/06 07:58	<input type="checkbox"/>
243	JJL12L	G6K140000	6318093	2A	1.0	11/23/06 08:01	<input type="checkbox"/>
244	Rinse				1.0	11/23/06 08:05	<input type="checkbox"/>
245	JJL12B	G6K140000	6318093	2A	1.0	11/23/06 08:08	<input type="checkbox"/>
246	JHGNW	G6J280108-5	6318093	2A	1.0	11/23/06 08:12	<input type="checkbox"/>
247	JHGNWP5	G6J280108	6318093		5.0	11/23/06 08:15	<input type="checkbox"/>
248	JHGNWZ	G6J280108-5	6318093		1.0	11/23/06 08:19	<input type="checkbox"/>
249	JHGNX	G6J280108-6	6318093	2A	1.0	11/23/06 08:22	<input type="checkbox"/>
250	JHGN0	G6J280108-7	6318093	2A	1.0	11/23/06 08:26	<input type="checkbox"/>
251	JHGN1	G6J280108-8	6318093	2A	1.0	11/23/06 08:29	<input type="checkbox"/>
252	CCV 35				1.0	11/23/06 08:33	<input type="checkbox"/>
253	CCB 35				1.0	11/23/06 08:36	<input type="checkbox"/>
254	CCV 36				1.0	11/23/06 08:40	<input type="checkbox"/>
255	CCB 36				1.0	11/23/06 08:43	<input type="checkbox"/>
256	JHPT4	G6K010273-1	6318093	2A	1.0	11/23/06 08:47	<input type="checkbox"/>
257	JHPT5	G6K010273-2	6318093	2A	1.0	11/23/06 08:50	<input type="checkbox"/>
258	JHPT7	G6K010273-3	6318093	2A	1.0	11/23/06 08:54	<input type="checkbox"/>
259	JHPT8	G6K010273-4	6318093	2A	1.0	11/23/06 08:57	<input type="checkbox"/>
260	JHPT9	G6K010273-5	6318093	2A	1.0	11/23/06 09:01	<input type="checkbox"/>
261	JHPVA	G6K010273-6	6318093	2A	1.0	11/23/06 09:04	<input type="checkbox"/>
262	JHPVC	G6K010273-7	6318093	2A	1.0	11/23/06 09:08	<input type="checkbox"/>
263	JHPVD	G6K010273-8	6318093	2A	1.0	11/23/06 09:11	<input type="checkbox"/>
264	JJERQ	G6K100129-1	6318093	2A	1.0	11/23/06 09:15	<input type="checkbox"/>
265	JJERR	G6K100129-2	6318093	2A	1.0	11/23/06 09:18	<input type="checkbox"/>
266	CCV 37				1.0	11/23/06 09:22	<input type="checkbox"/>
267	CCB 37				1.0	11/23/06 09:25	<input type="checkbox"/>
268	CCV 38				1.0	11/23/06 09:29	<input type="checkbox"/>
269	CCB 38				1.0	11/23/06 09:32	<input type="checkbox"/>
270	JJERT	G6K100129-3	6318093	2A	1.0	11/23/06 09:36	<input type="checkbox"/>
271	JJERV	G6K100129-4	6318093	2A	1.0	11/23/06 09:39	<input type="checkbox"/>
272	JJERW	G6K100129-5	6318093	2A	1.0	11/23/06 09:43	<input type="checkbox"/>
273	JJERX	G6K100129-6	6318093	2A	1.0	11/23/06 09:46	<input type="checkbox"/>
274	JJER1	G6K100129-7	6318093	2A	1.0	11/23/06 09:50	<input type="checkbox"/>
275	JJER2	G6K100129-8	6318093	2A	1.0	11/23/06 09:53	<input type="checkbox"/>
276	CCV 39				1.0	11/23/06 09:57	<input type="checkbox"/>
277	CCB 39				1.0	11/23/06 10:00	<input type="checkbox"/>

## STL Sacramento

## INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 11/28/06 12:29:24

File ID: 061122B1R

Analyst: ionesb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	Rinse	11/22/06 17:40	94.4	96.5	93.4	102.7	<input type="checkbox"/>
2	Blank	11/22/06 17:44	100.0	100.0	100.0	100.0	<input checked="" type="checkbox"/>
3	Standard1	11/22/06 17:48	102.7	99.8	104.1	97.2	<input checked="" type="checkbox"/>
4	ICV	11/22/06 17:52	105.3	102.2	112.2	95.1	<input checked="" type="checkbox"/>
5	ICB	11/22/06 17:56	104.7	101.4	113.8	94.1	<input checked="" type="checkbox"/>
6	LLSTD 10X	11/22/06 18:00	111.4	114.7	124.2	102.5	<input checked="" type="checkbox"/>
7	LLSTD 5X	11/22/06 18:03	110.8	116.6	123.6	103.1	<input checked="" type="checkbox"/>
8	ICSA	11/22/06 18:09	85.2	78.6	81.7	80.4	<input checked="" type="checkbox"/>
9	ICSAB	11/22/06 18:13	87.1	81.2	78.6	81.0	<input checked="" type="checkbox"/>
10	Rinse	11/22/06 18:17	126.7	116.5	111.0	101.0	<input checked="" type="checkbox"/>
11	CCV 1	11/22/06 18:21	129.0	112.0	122.1	100.8	<input checked="" type="checkbox"/>
12	CCB 1	11/22/06 18:24	128.7	113.3	128.9	102.4	<input checked="" type="checkbox"/>
15	CCV 2	11/22/06 18:28	101.0	98.4	102.7	101.7	<input checked="" type="checkbox"/>
16	CCB 2	11/22/06 18:32	99.0	97.8	103.2	101.7	<input checked="" type="checkbox"/>
17	LLSTD 5X	11/22/06 18:37	104.4	115.3	113.5	110.0	<input checked="" type="checkbox"/>
18	JJXAJC	11/22/06 18:41	93.4	97.4	103.3	103.6	<input checked="" type="checkbox"/>
19	JJXAJL	11/22/06 18:45	94.3	99.2	102.6	103.5	<input checked="" type="checkbox"/>
20	JJ71FC	11/22/06 18:49	92.2	97.3	99.4	101.4	<input checked="" type="checkbox"/>
21	JJ71FL	11/22/06 18:53	94.1	99.5	101.9	103.6	<input checked="" type="checkbox"/>
22	Rinse	11/22/06 18:56	95.0	98.2	99.7	103.4	<input checked="" type="checkbox"/>
23	JJXAJB	11/22/06 19:00	95.1	101.4	99.6	105.0	<input checked="" type="checkbox"/>
24	MB CONTRO	11/22/06 19:04	101.0	111.6	109.0	113.0	<input checked="" type="checkbox"/>
25	JJ71FB	11/22/06 19:07	96.3	101.7	98.0	104.7	<input checked="" type="checkbox"/>
26	MB CONTRO	11/22/06 19:11	102.1	111.1	106.0	112.7	<input checked="" type="checkbox"/>
27	CCV 3	11/22/06 19:14	97.0	100.8	96.6	103.5	<input checked="" type="checkbox"/>
28	CCB 3	11/22/06 19:18	96.7	100.0	99.4	103.4	<input checked="" type="checkbox"/>
29	CCV 4	11/22/06 19:22	100.5	100.6	96.0	103.4	<input checked="" type="checkbox"/>
30	CCB 4	11/22/06 19:25	98.4	101.1	101.1	104.4	<input checked="" type="checkbox"/>
31	JHQ8V	11/22/06 19:29	96.8	103.6	99.3	104.9	<input checked="" type="checkbox"/>
32	JHQ8VP5	11/22/06 19:33	98.0	102.7	97.5	104.8	<input type="checkbox"/>
33	JHQ8VZ	11/22/06 19:37	93.9	100.8	97.7	103.6	<input checked="" type="checkbox"/>
34	JHQ88	11/22/06 19:40	93.9	103.0	97.3	104.7	<input checked="" type="checkbox"/>
35	JHQ9A	11/22/06 19:44	94.8	102.6	95.9	105.0	<input checked="" type="checkbox"/>
36	JHQ9F	11/22/06 19:48	94.1	101.7	95.7	104.2	<input checked="" type="checkbox"/>
37	JHQ9H	11/22/06 19:51	92.8	101.9	96.1	104.2	<input checked="" type="checkbox"/>
38	JHRAM	11/22/06 19:55	93.8	101.7	94.2	104.9	<input checked="" type="checkbox"/>
39	JHRAX	11/22/06 19:59	92.7	100.5	92.8	103.3	<input checked="" type="checkbox"/>
40	JHRA2	11/22/06 20:03	93.3	101.7	92.7	104.3	<input checked="" type="checkbox"/>
41	CCV 5	11/22/06 20:06	95.2	100.3	94.0	103.6	<input checked="" type="checkbox"/>
42	CCB 5	11/22/06 20:10	96.1	102.3	94.7	103.9	<input checked="" type="checkbox"/>
43	CCV 6	11/22/06 20:14	97.5	101.9	93.1	104.2	<input checked="" type="checkbox"/>
44	CCB 6	11/22/06 20:18	96.5	102.0	90.5	102.5	<input checked="" type="checkbox"/>
45	JHRA4	11/22/06 20:22	96.1	104.8	93.8	105.4	<input checked="" type="checkbox"/>
46	JJACE	11/22/06 20:25	96.9	103.1	91.8	104.6	<input checked="" type="checkbox"/>
47	JJACEP5	11/22/06 20:29	97.4	103.0	91.7	103.6	<input type="checkbox"/>
48	JJACEZ	11/22/06 20:33	95.9	103.9	87.2	103.9	<input checked="" type="checkbox"/>

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001)	M01 (M01)	Reported: 11/28/06 12:29:24
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File ID: 061122B1R

Analyst: ionesb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
49	JJACG	11/22/06 20:37	94.5	100.5	89.4	103.6	<input checked="" type="checkbox"/>
50	JJACH	11/22/06 20:40	93.5	101.2	88.5	103.6	<input checked="" type="checkbox"/>
51	JJACJ	11/22/06 20:44	93.8	100.4	89.1	103.4	<input checked="" type="checkbox"/>
52	JJACK	11/22/06 20:48	93.5	101.8	90.1	104.6	<input checked="" type="checkbox"/>
53	JJMHA	11/22/06 20:52	93.0	100.9	87.3	103.7	<input checked="" type="checkbox"/>
54	JJMHE	11/22/06 20:56	94.0	103.1	87.7	103.2	<input checked="" type="checkbox"/>
55	CCV 7	11/22/06 20:59	94.9	100.5	88.9	102.7	<input checked="" type="checkbox"/>
56	CCB 7	11/22/06 21:03	96.3	103.1	89.6	103.9	<input checked="" type="checkbox"/>
57	CCV 8	11/22/06 21:07	96.3	102.2	87.5	103.1	<input checked="" type="checkbox"/>
58	CCB 8	11/22/06 21:11	96.3	103.2	87.4	103.4	<input checked="" type="checkbox"/>
59	JJMHF	11/22/06 21:14	93.9	103.3	83.7	104.1	<input checked="" type="checkbox"/>
60	LLSTD 10X	11/22/06 21:18	103.5	117.5	97.3	113.0	<input checked="" type="checkbox"/>
61	LLSTD 5X	11/22/06 21:21	102.6	120.8	95.1	111.1	<input checked="" type="checkbox"/>
62	ICSA	11/22/06 21:28	73.4	77.4	63.5	86.9	<input checked="" type="checkbox"/>
63	ICSAB	11/22/06 21:32	92.1	101.3	70.2	103.0	<input checked="" type="checkbox"/>
64	ICSAB	11/22/06 21:37	72.1	75.7	62.8	84.7	<input checked="" type="checkbox"/>
65	Rinse	11/22/06 21:41	94.8	102.7	71.6	104.4	<input checked="" type="checkbox"/>
66	CCV 9	11/22/06 21:45	96.5	101.3	77.2	102.9	<input checked="" type="checkbox"/>
67	CCB 9	11/22/06 21:49	100.1	106.2	78.7	104.3	<input checked="" type="checkbox"/>
70	CCV 10	11/22/06 22:13	100.2	98.7	109.0	100.1	<input checked="" type="checkbox"/>
71	CCB 10	11/22/06 22:17	102.3	102.1	110.2	100.6	<input checked="" type="checkbox"/>
72	JJ71HC	11/22/06 22:20	97.3	99.1	105.1	99.6	<input checked="" type="checkbox"/>
73	JJ71HL	11/22/06 22:24	94.6	97.3	106.2	99.1	<input checked="" type="checkbox"/>
74	Rinse	11/22/06 22:27	97.3	98.2	110.2	98.7	<input checked="" type="checkbox"/>
75	JJ71HB	11/22/06 22:31	96.5	99.3	106.1	100.6	<input checked="" type="checkbox"/>
76	JJ547	11/22/06 22:34	97.2	97.6	105.2	98.8	<input checked="" type="checkbox"/>
77	JJ547P5	11/22/06 22:37	100.5	99.4	110.7	99.2	<input type="checkbox"/>
78	JJ547X	11/22/06 22:41	98.4	98.4	105.4	99.4	<input checked="" type="checkbox"/>
79	JJ547Z	11/22/06 22:45	95.1	94.7	103.9	97.0	<input checked="" type="checkbox"/>
80	JJ55E	11/22/06 22:48	95.2	96.9	105.0	97.3	<input checked="" type="checkbox"/>
81	JJ55F	11/22/06 22:52	97.0	97.8	107.9	98.4	<input checked="" type="checkbox"/>
82	CCV 11	11/22/06 22:55	96.4	95.2	111.2	95.3	<input checked="" type="checkbox"/>
83	CCB 11	11/22/06 22:59	101.0	99.2	111.2	98.6	<input checked="" type="checkbox"/>
84	CCV 12	11/22/06 23:02	99.5	96.9	112.3	96.7	<input checked="" type="checkbox"/>
85	CCB 12	11/22/06 23:06	100.9	99.7	112.6	98.6	<input checked="" type="checkbox"/>
86	JJ55G	11/22/06 23:09	99.7	99.5	106.8	99.7	<input checked="" type="checkbox"/>
87	JJ55H	11/22/06 23:13	99.1	99.8	105.6	98.9	<input checked="" type="checkbox"/>
88	JJ55J	11/22/06 23:16	99.9	100.2	109.6	99.8	<input checked="" type="checkbox"/>
89	JJ55K	11/22/06 23:20	99.9	99.7	108.8	98.6	<input checked="" type="checkbox"/>
90	JJ55L	11/22/06 23:23	100.1	98.9	109.4	98.7	<input checked="" type="checkbox"/>
91	JJ55M	11/22/06 23:27	98.6	98.8	106.5	98.9	<input checked="" type="checkbox"/>
92	JJ55P	11/22/06 23:30	99.6	100.7	107.6	98.2	<input checked="" type="checkbox"/>
93	JJ55Q	11/22/06 23:34	99.8	99.9	109.2	99.0	<input checked="" type="checkbox"/>
94	JJ55R	11/22/06 23:37	99.9	99.9	109.3	99.5	<input checked="" type="checkbox"/>
95	JJ558	11/22/06 23:41	97.9	99.0	109.1	99.2	<input checked="" type="checkbox"/>
96	CCV 13	11/22/06 23:44	98.4	94.4	115.0	94.0	<input checked="" type="checkbox"/>

## STL Sacramento

## INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 11/28/06 12:29:24

File ID: 061122B1R

Analyst: ionesh

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
97	CCB 13	11/22/06 23:48	101.1	98.4	113.7	96.7	☑
98	CCV 14	11/22/06 23:51	100.2	96.3	114.7	95.5	☑
99	CCB 14	11/22/06 23:55	101.4	99.3	115.9	97.5	☑
100	JJ559	11/22/06 23:58	97.9	99.9	108.5	97.3	☑
101	JJ56A	11/23/06 00:02	99.3	98.6	106.8	97.8	☑
102	JJ56C	11/23/06 00:05	98.5	98.8	109.2	98.4	☑
103	JJ56D	11/23/06 00:09	98.8	99.3	110.5	97.5	☑
104	JJ56E	11/23/06 00:12	98.6	99.9	112.3	98.2	☑
105	JJ56F	11/23/06 00:16	97.1	98.5	109.2	95.7	☑
106	JJ71QC	11/23/06 00:19	93.3	96.1	109.4	95.4	☑
107	JJ71QL	11/23/06 00:23	92.8	95.4	112.8	95.0	☑
108	Rinse	11/23/06 00:26	95.7	96.5	115.4	94.6	☑
109	JJ71QB	11/23/06 00:30	93.3	97.0	111.0	96.2	☑
110	CCV 15	11/23/06 00:33	98.3	96.6	118.0	93.5	☑
111	CCB 15	11/23/06 00:37	98.8	98.2	116.3	94.3	☑
112	CCV 16	11/23/06 00:40	99.1	96.6	115.7	93.9	☑
113	CCB 16	11/23/06 00:44	100.2	98.6	116.3	95.1	☑
114	JJ560	11/23/06 00:47	97.7	99.0	108.9	95.8	☑
115	JJ560P5	11/23/06 00:51	99.4	98.3	114.5	95.5	☐
116	JJ560X	11/23/06 00:54	97.2	97.8	109.4	95.5	☑
117	JJ560Z	11/23/06 00:58	92.3	95.6	108.4	92.5	☑
118	JJ563	11/23/06 01:01	93.3	95.4	108.3	93.1	☑
119	JJ564	11/23/06 01:05	93.4	94.0	107.8	92.1	☑
120	JJ566	11/23/06 01:08	93.9	96.0	107.4	92.3	☑
121	JJ567	11/23/06 01:12	95.4	95.4	110.3	94.1	☑
122	JJ569	11/23/06 01:15	94.9	96.2	109.7	93.8	☑
123	JJ57A	11/23/06 01:19	96.3	97.9	111.2	93.5	☑
124	CCV 17	11/23/06 01:22	98.7	94.0	117.3	89.6	☑
125	CCB 17	11/23/06 01:26	99.4	97.0	119.0	92.3	☑
128	CCV 18	11/23/06 01:29	99.5	98.4	99.3	99.2	☑
129	CCB 18	11/23/06 01:33	100.7	100.7	98.1	99.0	☑
130	JJ57C	11/23/06 01:36	97.6	101.3	93.0	100.7	☑
131	JJ57D	11/23/06 01:40	96.8	99.0	92.4	100.9	☑
132	JJ57E	11/23/06 01:43	97.2	100.1	94.6	100.7	☑
133	JJ57F	11/23/06 01:47	97.6	100.8	96.3	102.6	☑
134	JJ57G	11/23/06 01:50	97.6	99.8	91.7	100.1	☑
135	JJ57H	11/23/06 01:54	95.7	100.7	94.3	100.2	☑
136	JJ56G	11/23/06 01:57	97.0	99.3	92.1	100.2	☑
137	JJ56H	11/23/06 02:01	96.8	99.1	94.5	100.6	☑
138	JJ56J	11/23/06 02:04	95.5	98.2	92.7	98.5	☑
139	JJ56K	11/23/06 02:08	96.4	99.0	93.0	98.2	☑
140	CCV 19	11/23/06 02:11	98.1	95.7	98.3	96.0	☑
141	CCB 19	11/23/06 02:15	101.6	99.6	100.4	97.9	☑
142	CCV 20	11/23/06 02:18	99.5	97.3	98.8	95.9	☑
143	CCB 20	11/23/06 02:22	100.5	98.8	98.5	97.6	☑
144	JJ56L	11/23/06 02:25	97.5	99.8	96.7	100.8	☑

## STL Sacramento

## INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 11/28/06 12:29:24

File ID: 061122B1R

Analyst: ionesh

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
145	JJ56M	11/23/06 02:29	96.7	99.8	92.7	99.3	<input checked="" type="checkbox"/>
146	JJW8JC	11/23/06 02:32	92.7	96.4	96.0	96.8	<input checked="" type="checkbox"/>
147	JJW8JL	11/23/06 02:36	91.1	95.7	96.8	97.0	<input checked="" type="checkbox"/>
148	Rinse	11/23/06 02:39	97.0	98.1	100.8	97.0	<input checked="" type="checkbox"/>
149	JJW8JB	11/23/06 02:43	92.9	97.5	96.1	98.6	<input checked="" type="checkbox"/>
150	JG77J	11/23/06 02:46	92.5	98.3	96.4	98.2	<input checked="" type="checkbox"/>
151	JG77JP5	11/23/06 02:50	96.6	99.7	98.2	97.6	<input type="checkbox"/>
152	JG77JZ	11/23/06 02:53	90.4	95.6	93.6	95.8	<input checked="" type="checkbox"/>
153	JG77L	11/23/06 02:57	90.5	97.3	93.4	97.8	<input checked="" type="checkbox"/>
154	CCV 21	11/23/06 03:00	96.4	96.8	101.0	94.6	<input checked="" type="checkbox"/>
155	CCB 21	11/23/06 03:04	99.4	99.2	101.5	97.1	<input checked="" type="checkbox"/>
156	CCV 22	11/23/06 03:07	97.7	95.4	98.6	94.4	<input checked="" type="checkbox"/>
157	CCB 22	11/23/06 03:11	99.8	97.9	101.1	95.7	<input checked="" type="checkbox"/>
158	JG77M	11/23/06 03:15	95.0	99.2	94.6	98.8	<input checked="" type="checkbox"/>
159	JG77Q	11/23/06 03:18	92.3	96.1	93.4	96.9	<input checked="" type="checkbox"/>
160	JG77T	11/23/06 03:22	93.2	97.2	95.6	99.7	<input checked="" type="checkbox"/>
161	JG77V	11/23/06 03:25	92.1	97.9	93.3	97.7	<input checked="" type="checkbox"/>
162	JG77X	11/23/06 03:29	91.4	96.1	91.1	96.1	<input checked="" type="checkbox"/>
163	JG77Z	11/23/06 03:32	93.2	97.7	93.9	97.9	<input checked="" type="checkbox"/>
164	JH244	11/23/06 03:36	92.8	99.0	93.8	97.0	<input checked="" type="checkbox"/>
165	JH249	11/23/06 03:39	92.3	97.2	93.0	97.7	<input checked="" type="checkbox"/>
166	JH25C	11/23/06 03:42	92.5	96.7	93.8	97.0	<input checked="" type="checkbox"/>
167	JH25D	11/23/06 03:46	92.7	97.4	94.7	97.9	<input checked="" type="checkbox"/>
168	CCV 23	11/23/06 03:49	96.1	94.6	99.9	92.5	<input checked="" type="checkbox"/>
169	CCB 23	11/23/06 03:53	100.4	98.4	102.1	96.2	<input checked="" type="checkbox"/>
172	CCV 24	11/23/06 03:56	98.3	97.5	98.8	98.1	<input checked="" type="checkbox"/>
173	CCB 24	11/23/06 04:00	100.3	100.4	99.1	98.8	<input checked="" type="checkbox"/>
174	JH25J	11/23/06 04:04	96.3	99.7	94.5	101.8	<input checked="" type="checkbox"/>
175	JH25K	11/23/06 04:07	94.5	100.7	94.5	101.7	<input checked="" type="checkbox"/>
176	JH25L	11/23/06 04:10	94.4	100.2	94.3	101.9	<input checked="" type="checkbox"/>
177	JH25N	11/23/06 04:14	94.6	100.9	92.9	102.8	<input checked="" type="checkbox"/>
178	JJKE8C	11/23/06 04:17	91.9	98.9	96.3	101.0	<input checked="" type="checkbox"/>
179	JJKE8L	11/23/06 04:21	90.4	97.2	95.0	97.7	<input checked="" type="checkbox"/>
180	Rinse	11/23/06 04:24	96.2	98.5	100.3	98.1	<input checked="" type="checkbox"/>
181	JJKE8B	11/23/06 04:28	91.2	98.1	94.2	100.1	<input checked="" type="checkbox"/>
182	CCV 25	11/23/06 04:32	97.1	97.1	100.5	96.7	<input checked="" type="checkbox"/>
183	CCB 25	11/23/06 04:35	99.3	100.2	100.6	98.1	<input checked="" type="checkbox"/>
184	CCV 26	11/23/06 04:39	98.1	98.0	101.7	98.4	<input checked="" type="checkbox"/>
185	CCB 26	11/23/06 04:42	99.5	99.0	99.8	98.7	<input checked="" type="checkbox"/>
186	JGWWP	11/23/06 04:46	96.1	101.9	95.1	101.6	<input checked="" type="checkbox"/>
187	JGWWPP5	11/23/06 04:49	97.3	98.6	94.6	97.6	<input type="checkbox"/>
188	JGWWPZ	11/23/06 04:53	92.8	99.6	93.2	101.0	<input checked="" type="checkbox"/>
189	JGWWX	11/23/06 04:56	91.4	98.0	92.5	99.2	<input checked="" type="checkbox"/>
190	JGWW2	11/23/06 05:00	91.7	98.6	93.5	100.1	<input checked="" type="checkbox"/>
191	JGWXD	11/23/06 05:03	92.4	98.8	93.8	101.3	<input checked="" type="checkbox"/>
192	JGWXF	11/23/06 05:07	92.9	99.9	93.6	100.6	<input checked="" type="checkbox"/>

## STL Sacramento

## INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 11/28/06 12:29:24

File ID: 061122B1R

Analyst: ioneseb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
193	JGWXG	11/23/06 05:10	92.0	98.4	94.0	101.5	<input checked="" type="checkbox"/>
194	JGWXL	11/23/06 05:14	93.2	100.2	93.2	102.8	<input checked="" type="checkbox"/>
195	JGWXN	11/23/06 05:17	92.6	99.1	91.7	100.6	<input checked="" type="checkbox"/>
196	CCV 27	11/23/06 05:21	97.4	97.0	102.6	97.7	<input checked="" type="checkbox"/>
197	CCB 27	11/23/06 05:24	99.5	101.1	100.8	99.1	<input checked="" type="checkbox"/>
198	CCV 28	11/23/06 05:28	99.2	98.5	101.0	98.6	<input checked="" type="checkbox"/>
199	CCB 28	11/23/06 05:31	102.0	101.0	101.7	99.7	<input checked="" type="checkbox"/>
200	JG3D8	11/23/06 05:35	97.7	102.1	97.6	102.4	<input checked="" type="checkbox"/>
201	JG3EA	11/23/06 05:38	94.9	101.2	95.1	101.7	<input checked="" type="checkbox"/>
202	JG3EC	11/23/06 05:42	95.1	101.6	95.1	103.1	<input checked="" type="checkbox"/>
203	JG3ED	11/23/06 05:45	94.2	100.2	92.6	101.8	<input checked="" type="checkbox"/>
204	JG3EE	11/23/06 05:49	94.8	100.8	94.1	100.6	<input checked="" type="checkbox"/>
205	JG3EF	11/23/06 05:52	93.6	99.1	93.1	101.6	<input checked="" type="checkbox"/>
206	JG3EH	11/23/06 05:56	94.6	101.2	94.4	101.9	<input checked="" type="checkbox"/>
207	JG3EJ	11/23/06 05:59	94.9	100.1	93.9	102.6	<input checked="" type="checkbox"/>
208	JJKH2C	11/23/06 06:03	91.5	98.7	93.6	100.1	<input checked="" type="checkbox"/>
209	JJKH2L	11/23/06 06:06	91.8	99.5	97.9	100.3	<input checked="" type="checkbox"/>
210	CCV 29	11/23/06 06:10	97.8	96.8	103.2	98.2	<input checked="" type="checkbox"/>
211	CCB 29	11/23/06 06:13	101.5	102.2	104.7	101.1	<input checked="" type="checkbox"/>
212	CCV 30	11/23/06 06:17	98.8	98.1	102.1	98.2	<input checked="" type="checkbox"/>
213	CCB 30	11/23/06 06:20	101.3	102.6	103.9	99.8	<input checked="" type="checkbox"/>
214	JJKH2B	11/23/06 06:24	97.0	101.5	99.2	103.2	<input checked="" type="checkbox"/>
215	JHA94	11/23/06 06:27	97.1	102.7	97.0	104.1	<input checked="" type="checkbox"/>
216	JHA94P5	11/23/06 06:31	100.9	103.4	101.3	102.4	<input type="checkbox"/>
217	JHA94Z	11/23/06 06:34	94.6	99.5	93.0	101.1	<input checked="" type="checkbox"/>
218	JHA95	11/23/06 06:38	93.8	100.5	93.4	102.2	<input checked="" type="checkbox"/>
219	JHA96	11/23/06 06:41	93.5	99.9	93.0	102.3	<input checked="" type="checkbox"/>
220	JHA97	11/23/06 06:45	94.6	101.4	91.9	102.9	<input checked="" type="checkbox"/>
221	JHA99	11/23/06 06:48	94.9	101.0	93.6	103.9	<input checked="" type="checkbox"/>
222	JHCAA	11/23/06 06:52	95.4	101.2	94.5	101.8	<input checked="" type="checkbox"/>
223	JHCAC	11/23/06 06:55	95.2	100.9	94.2	103.5	<input checked="" type="checkbox"/>
224	CCV 31	11/23/06 06:59	100.4	99.9	104.9	101.5	<input checked="" type="checkbox"/>
225	CCB 31	11/23/06 07:02	102.8	103.1	104.2	102.4	<input checked="" type="checkbox"/>
228	CCV 32	11/23/06 07:06	99.4	96.7	99.0	99.3	<input checked="" type="checkbox"/>
229	CCB 32	11/23/06 07:09	100.8	99.2	97.9	99.9	<input checked="" type="checkbox"/>
230	JHCAD	11/23/06 07:13	97.0	101.6	93.9	102.3	<input checked="" type="checkbox"/>
231	JHJKC	11/23/06 07:16	96.7	99.6	91.4	103.6	<input checked="" type="checkbox"/>
232	JHJKF	11/23/06 07:19	96.3	100.3	92.4	103.0	<input checked="" type="checkbox"/>
233	JHJKG	11/23/06 07:23	95.7	99.9	91.6	103.1	<input checked="" type="checkbox"/>
234	JHJKH	11/23/06 07:26	95.3	99.9	89.0	101.9	<input checked="" type="checkbox"/>
235	JHJKJ	11/23/06 07:30	95.0	100.0	89.9	101.8	<input checked="" type="checkbox"/>
236	JHJKK	11/23/06 07:33	94.5	99.2	90.3	101.2	<input checked="" type="checkbox"/>
237	JHJKL	11/23/06 07:37	94.1	100.1	90.6	101.7	<input checked="" type="checkbox"/>
238	JHJKN	11/23/06 07:40	95.1	99.2	90.7	103.0	<input checked="" type="checkbox"/>
239	CCV 33	11/23/06 07:44	99.7	97.8	101.9	100.1	<input checked="" type="checkbox"/>
240	CCB 33	11/23/06 07:47	102.0	101.8	100.1	100.5	<input checked="" type="checkbox"/>

## STL Sacramento

## INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 11/28/06 12:29:24

File ID: 061122B1R

Analyst: ioneseb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
241	CCV 34	11/23/06 07:51	101.1	99.5	100.4	100.0	<input checked="" type="checkbox"/>
242	CCB 34	11/23/06 07:54	103.8	102.5	103.1	102.3	<input checked="" type="checkbox"/>
243	JJL12C	11/23/06 07:58	96.0	101.1	95.9	102.7	<input checked="" type="checkbox"/>
244	JJL12L	11/23/06 08:01	94.2	99.3	95.2	101.2	<input checked="" type="checkbox"/>
245	Rinse	11/23/06 08:05	99.5	100.3	100.5	100.5	<input checked="" type="checkbox"/>
246	JJL12B	11/23/06 08:08	94.5	99.4	93.8	103.2	<input checked="" type="checkbox"/>
247	JHGNW	11/23/06 08:12	93.2	100.9	92.8	103.2	<input checked="" type="checkbox"/>
248	JHGNWP5	11/23/06 08:15	98.9	102.2	98.2	101.1	<input type="checkbox"/>
249	JHGNWZ	11/23/06 08:19	91.5	97.8	90.1	100.7	<input checked="" type="checkbox"/>
250	JHGNX	11/23/06 08:22	92.6	98.2	90.4	101.9	<input checked="" type="checkbox"/>
251	JHGN0	11/23/06 08:26	92.6	98.3	91.2	102.4	<input checked="" type="checkbox"/>
252	JHGN1	11/23/06 08:29	92.9	99.7	91.9	102.9	<input checked="" type="checkbox"/>
253	CCV 35	11/23/06 08:33	99.7	98.8	100.4	100.7	<input checked="" type="checkbox"/>
254	CCB 35	11/23/06 08:36	101.9	101.2	100.6	101.9	<input checked="" type="checkbox"/>
255	CCV 36	11/23/06 08:40	101.2	98.9	101.7	100.3	<input checked="" type="checkbox"/>
256	CCB 36	11/23/06 08:43	104.0	103.6	103.9	103.5	<input checked="" type="checkbox"/>
257	JHPT4	11/23/06 08:47	98.2	101.8	95.9	105.7	<input checked="" type="checkbox"/>
258	JHPT5	11/23/06 08:50	96.4	101.7	94.0	104.0	<input checked="" type="checkbox"/>
259	JHPT7	11/23/06 08:54	96.7	102.3	93.7	106.2	<input checked="" type="checkbox"/>
260	JHPT8	11/23/06 08:57	97.1	101.5	93.4	105.1	<input checked="" type="checkbox"/>
261	JHPT9	11/23/06 09:01	97.1	101.7	91.9	106.0	<input checked="" type="checkbox"/>
262	JHPVA	11/23/06 09:04	96.6	102.5	93.4	106.1	<input checked="" type="checkbox"/>
263	JHPVC	11/23/06 09:08	94.8	100.2	93.8	105.7	<input checked="" type="checkbox"/>
264	JHPVD	11/23/06 09:11	96.9	102.6	94.0	105.3	<input checked="" type="checkbox"/>
265	JJERQ	11/23/06 09:15	96.9	101.7	92.6	105.6	<input checked="" type="checkbox"/>
266	JJERR	11/23/06 09:18	97.0	102.8	92.0	106.2	<input checked="" type="checkbox"/>
267	CCV 37	11/23/06 09:22	103.6	101.2	103.6	103.1	<input checked="" type="checkbox"/>
268	CCB 37	11/23/06 09:25	103.6	103.8	101.0	103.8	<input checked="" type="checkbox"/>
269	CCV 38	11/23/06 09:29	102.8	101.8	100.9	102.7	<input checked="" type="checkbox"/>
270	CCB 38	11/23/06 09:32	105.8	105.7	102.4	104.4	<input checked="" type="checkbox"/>
271	JJERT	11/23/06 09:36	100.3	104.9	95.7	107.3	<input checked="" type="checkbox"/>
272	JJERV	11/23/06 09:39	99.1	103.7	96.7	107.4	<input checked="" type="checkbox"/>
273	JJERW	11/23/06 09:43	97.7	103.8	93.1	106.8	<input checked="" type="checkbox"/>
274	JJERX	11/23/06 09:46	97.9	102.6	93.7	107.4	<input checked="" type="checkbox"/>
275	JJER1	11/23/06 09:50	96.8	102.7	92.0	104.9	<input checked="" type="checkbox"/>
276	JJER2	11/23/06 09:53	98.4	103.5	94.7	107.9	<input checked="" type="checkbox"/>
277	CCV 39	11/23/06 09:57	103.8	102.0	102.9	104.4	<input checked="" type="checkbox"/>
278	CCB 39	11/23/06 10:00	106.3	104.3	103.2	106.1	<input checked="" type="checkbox"/>

**STL SACRAMENTO - Elan 6000 ICPMS Perkin Elmer M01 Quantitative Method Report**

File Name: 6321133.mth  
 File Path: C:\elandata\Method\6321133.mth

**Timing Parameters**

Sweeps/Reading: 50  
 Readings/Replicate: 1  
 Number of Replicates: 3  
 Tuning File: c:\elandata\Tuning\default.tun  
 Optimization File: c:\elandata\Optimize\default.dac  
 QC Enabled: Yes  
 Settling Time: Normal

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Li-1	6.015	Peak Hopping	1	14.0 ms	700 ms
Be	9.012	Peak Hopping	1	14.0 ms	700 ms
Al	26.982	Peak Hopping	1	14.0 ms	700 ms
Cr	51.941	Peak Hopping	1	14.0 ms	700 ms
Mn	54.938	Peak Hopping	1	14.0 ms	700 ms
Co	58.933	Peak Hopping	1	14.0 ms	700 ms
Ni	59.933	Peak Hopping	1	14.0 ms	700 ms
Cu	64.928	Peak Hopping	1	14.0 ms	700 ms
Zn	67.925	Peak Hopping	1	14.0 ms	700 ms
As	74.922	Peak Hopping	1	20.0 ms	1000 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms
Cd	110.904	Peak Hopping	1	14.0 ms	700 ms
Sb	120.904	Peak Hopping	1	14.0 ms	700 ms
Ba	134.906	Peak Hopping	1	14.0 ms	700 ms
In-1	114.904	Peak Hopping	1	14.0 ms	700 ms
Pb	207.977	Peak Hopping	1	14.0 ms	700 ms
Tm-1	168.934	Peak Hopping	1	14.0 ms	700 ms
Cr	49.946	Peak Hopping	1	5.0 ms	250 ms
Cr	52.941	Peak Hopping	1	5.0 ms	250 ms
Ni	60.931	Peak Hopping	1	5.0 ms	250 ms
Cu	62.930	Peak Hopping	1	5.0 ms	250 ms
Zn	66.927	Peak Hopping	1	5.0 ms	250 ms
Zn	65.926	Peak Hopping	1	5.0 ms	250 ms
Ge	71.922	Peak Hopping	1	14.0 ms	700 ms
Cd	107.904	Peak Hopping	1	5.0 ms	250 ms
Cd	113.904	Peak Hopping	1	14.0 ms	700 ms
In	114.904	Peak Hopping	1	14.0 ms	700 ms
207.977	207.977	Peak Hopping	1	14.0 ms	700 ms
Pb	206.976	Peak Hopping	1	14.0 ms	700 ms
Pb	205.975	Peak Hopping	1	14.0 ms	700 ms
Tm	168.934	Peak Hopping	1	14.0 ms	700 ms
Pd	105.903	Peak Hopping	1	14.0 ms	700 ms
Kr	82.914	Peak Hopping	1	14.0 ms	700 ms
W	181.948	Peak Hopping	1	5.0 ms	250 ms

**Signal Processing**

Detector Mode: Dual  
 Measurement Units: Counts  
 AutoLens: On

Report Date/Time: Thursday, November 23, 2006 12:58:57

Spectral Peak Processing: Average  
 Signal Profile Processing: Average  
 Blank Subtraction: After Internal Standard  
 Baseline Readings: 0  
 Smoothing: Yes, Factor 5

**Equations**

Analyte	Mass	Corrections
Ni	59.933	-0.005 * Ca 43
Cu	64.928	-0.0078 * Ti 49
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78
Cd	110.904	-1.073 * Pd 108 + 0.712 * Pd 106
In-1	114.904	- 0.014032 * Sn 118
Pb	207.977	+ 1.0 * Pb 207 + 1.0 * Pb 206
Cr	49.946	- 0.739726 * Ti 47 - 0.002506 * V 51
Cd	107.904	- 1.184953 * Pd 105
Cd	113.904	- 0.026826 * Sn 118
In	114.904	- 0.014032 * Sn 118

**Calibration Information**

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
Li-1	6.015	Linear Thru Zero	ug/L	ug/L				
Be	9.012	Linear Thru Zero	ug/L	ug/L	100			
Al	26.982	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Cr	51.941	Linear Thru Zero	ug/L	ug/L	100			
Mn	54.938	Linear Thru Zero	ug/L	ug/L	100			
Co	58.933	Linear Thru Zero	ug/L	ug/L	100			
Ni	59.933	Linear Thru Zero	ug/L	ug/L	100			
Cu	64.928	Linear Thru Zero	ug/L	ug/L	100			
Zn	67.925	Linear Thru Zero	ug/L	ug/L	100			
As	74.922	Linear Thru Zero	ug/L	ug/L	100			
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L				
Cd	110.904	Linear Thru Zero	ug/L	ug/L	100			
Sb	120.904	Linear Thru Zero	ug/L	ug/L	50			
Ba	134.906	Linear Thru Zero	ug/L	ug/L	100			
In-1	114.904	Linear Thru Zero	ug/L	ug/L				
Pb	207.977	Linear Thru Zero	ug/L	ug/L	100			
Tm-1	168.934	Linear Thru Zero	ug/L	ug/L				
Cr	49.946	Linear Thru Zero	ug/L	ug/L	100			
Cr	52.941	Linear Thru Zero	ug/L	ug/L	100			
Ni	60.931	Linear Thru Zero	ug/L	ug/L	100			
Cu	62.930	Linear Thru Zero	ug/L	ug/L	100			
Zn	66.927	Linear Thru Zero	ug/L	ug/L	100			
Zn	65.926	Linear Thru Zero	ug/L	ug/L	100			
Ge	71.922	Linear Thru Zero	ug/L	ug/L				
Cd	107.904	Linear Thru Zero	ug/L	ug/L	100			
Cd	113.904	Linear Thru Zero	ug/L	ug/L	100			
In	114.904	Linear Thru Zero	ug/L	ug/L				
Pb	207.977	Linear Thru Zero	ug/L	ug/L	100			
Pb	206.976	Linear Thru Zero	ug/L	ug/L	100			
Pb	205.975	Linear Thru Zero	ug/L	ug/L	100			
Tm	168.934	Linear Thru Zero	ug/L	ug/L				
Pd	105.903	Linear Thru Zero	ug/L	ug/L	100			
Kr	82.914	Linear Thru Zero	ug/L	ug/L	100			
W	181.948	Linear Thru Zero	ug/L	ug/L				

Report Date/Time: Thursday, November 23, 2006 12:58:57

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STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS, M01 – Methods 6020, 200.8

AIR TOX STANDARDS - 4 % HNO<sub>3</sub>, 0.5 % HCl

**Standards for run:**

Tuning standard: 2830-25D

Internal standard: 2830-24B

Blank, CCBs: 2531-34G

Standard 1, CCVs: 2830-24D

ICV: 2830-18D

ICSA: 2830-22B

ICSAB: 2830-25A

File Number: 061122B1

### Instrument Tuning Report - Elan 6000

File Name: default.tun

#### Sample Information

Sample Date/Time: Wednesday, November 22, 2006 12:12:37

Sample ID: TUNE BJONES

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.027	1576	0.711	2032	
Be	9.012	9.079	2067	0.722	2018	
Co	58.933	58.929	14295	0.719	1890	
In	114.904	114.879	27956	0.719	1852	
Ce	139.905	139.928	34030	0.717	1896	
Tl	204.975	204.979	49740	0.709	2114	
Pb	207.977	207.978	50476	0.706	2133	
U	238.050	238.025	57679	0.709	2293	

## Elan 6000 Instrument Optomization Report

File Name c:\elandata\Optimize\default.dac

Path c:\elandata\Optimize

### Sample Information

Sample Date/Time: Wednesday, November 22, 2006 12:12:37

Sample ID: TUNE BJONES

### Parameter Settings

Nebulizer Gas Flow	0.9
Lens Voltage	5.8
ICP RF Power	1100.0
Analog Stage Voltage	-2000.0
Pulse Stage Voltage	1400.0
Discriminator Threshold	70.0
AC Rod Offset	-7.0
Service DAC 1	60.0
Quadrupole Rod Offset	0.0

### AutoLens Calibration

Date: 12:18:06 Wed 22-Nov-06

Sample Filename: AUTOLENS BJONES.002

Dataset Pathname: 061122A1\

Lens Voltage Start: 3.50 V

Lens Voltage End: 7.50 V

Lens Voltage Step: 0.25 V

Slope: 0.0141

Intercept: 3.9764

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	4.0 V	5758 cps	17
Co	58.933	5.0 V	263510 cps	17
In	114.904	5.5 V	479594 cps	17

### Dual Detector Calibration

Date: 17:37:42 Tue 21-Nov-06

Sample Filename: DUAL BJONES.786

Dataset Pathname: dual detector calibration\

Points Acquired: 37

Lens Voltage Start: -3.00 V

Lens Voltage End: 15.00 V

Lens Voltage Step: 0.50 V

Analyte	Mass	Gain	N(max)
Li	6.015	6125	2.04e+009 cps
Li	7.016	5687	2.20e+009 cps
Be	9.012	5272	2.37e+009 cps
B	11.009	5560	2.25e+009 cps
Na	22.990	5499	2.28e+009 cps

Report Date/Time: Wednesday, November 22, 2006 16:02:51

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STL SACRAMENTO - Elan 6000 ICPMS, M01 - Methods 6020, 200.8

Mg	23.985	5177 2.42e+009 cps
Mg	24.986	4973 2.52e+009 cps
Al	26.982	4906 2.55e+009 cps
P	30.994	4449 2.81e+009 cps
K	38.964	4364 2.87e+009 cps
Ca	42.959	4370 2.86e+009 cps
Ca	43.956	4314 2.90e+009 cps
Sc	44.956	4318 2.90e+009 cps
V	50.944	4227 2.96e+009 cps
Cr	51.941	4097 3.06e+009 cps
Fe	53.940	4103 3.05e+009 cps
Mn	54.938	4024 3.11e+009 cps
Fe	56.935	3877 3.23e+009 cps
Co	58.933	3910 3.20e+009 cps
Ni	59.933	3813 3.28e+009 cps
Cu	62.930	3734 3.35e+009 cps
Cu	64.928	3754 3.33e+009 cps
Zn	67.925	3801 3.29e+009 cps
Ge	71.922	3767 3.32e+009 cps
As	74.922	3720 3.37e+009 cps
Se	77.917	3863 3.24e+009 cps
Br	78.918	cps
Se	81.917	3724 3.36e+009 cps
Sr	87.906	3727 3.36e+009 cps
Mo	96.906	3759 3.33e+009 cps
Ag	106.905	3394 3.69e+009 cps
Ag	108.905	3383 3.70e+009 cps
Cd	110.904	3548 3.53e+009 cps
Cd	113.904	3536 3.54e+009 cps
In	114.904	3544 3.53e+009 cps
Sn	117.902	3586 3.49e+009 cps
Sb	120.904	3525 3.55e+009 cps
Ba	134.906	3496 3.58e+009 cps
Tm	168.934	3369 3.72e+009 cps
Tl	204.975	3227 3.88e+009 cps
Pb	207.977	3243 3.86e+009 cps
Bi	208.980	cps
U	238.050	3223 3.88e+009 cps

## Daily Performance Report - Elan 6000

Sample ID: DAILY BJONES  
 Sample Date/Time: Wednesday, November 22, 2006 12:20:44  
 Sample Description:  
 Sample File: C:\elandata\Sample\6321025R.sam  
 Method File: C:\elandata\Method\000-DAILY\_EPA.mth  
 Dataset File: C:\elandata\Dataset\061122A1\DAILY BJONES.003  
 Tuning File: c:\elandata\Tuning\default.tun  
 Optimization File: C:\elandata\Optimize\default.dac  
 Number of Replicates: 5  
 Dual Detector Mode: Dual

### Summary

Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24	79357.460	1451.236	1.829
Rh	103	350176.000	2873.352	0.821
Pb	208	189671.210	2406.194	1.269
[> Ba	138	368814.042	3678.345	0.997
[ Ba++	69	0.026	0.000	1.811
[> Ce	140	438918.179	935.643	0.213
[ CeO	156	0.030	0.001	2.566
Bkgd	220	5.429	2.119	39.033
Li	7	15862.920	342.217	2.157
Be	9	5418.318	160.734	2.966
Co	59	198230.959	1555.756	0.785
In	115	454988.931	3241.283	0.712
Tl	205	275402.871	3334.091	1.211

SOP No. SAC-MT-0001

BJones

**Sample ID: Rinse**

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 17:40:43

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\Rinse.001

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			618560.827	ug/L	247022.469
[ 9 Be	0.002646	231.364	2.333	ug/L	0.667
[ 27 Al	-12.326167	9.295	45495.896	ug/L	28302.056
[ 52 Cr	-0.290596	14.718	19031.019	ug/L	5011.768
[ 55 Mn	-0.175855	2.652	1536.468	ug/L	1046.729
[ 59 Co	0.001503	20.879	90.334	ug/L	14.667
[ 60 Ni	-0.067915	5.809	98.750	ug/L	76.717
[ 65 Cu	-0.036933	17.647	263.201	ug/L	90.074
[ 68 Zn	-1.606557	4.656	2733.761	ug/L	1045.396
[ 75 As	-5.616752	6.215	14491.060	ug/L	6981.819
> 72 Ge-1			1545066.909	ug/L	345349.437
[ 111 Cd	-0.003943	49.826	85.184	ug/L	24.164
[ 121 Sb	0.003975	7.093	149.668	ug/L	28.333
[ 135 Ba	-0.026783	25.140	291.338	ug/L	92.667
> 115 In-1			1687589.080	ug/L	422066.967
[ 208 Pb	-0.022182	3.071	744.679	ug/L	401.004
> 169 Tm-1			1332445.813	ug/L	336428.803
[ 50 Cr	0.297978	42.517	-267.159	ug/L	-77.107
[ 53 Cr	-20.211406	7.193	28288.194	ug/L	8805.395
[ 61 Ni	11.781584	22.162	2541.703	ug/L	412.694
[ 63 Cu	-0.042842	3.076	173.005	ug/L	66.001
[ 67 Zn	-15.095539	5.129	1660.108	ug/L	732.419
[ 66 Zn	-1.061626	2.545	897.796	ug/L	342.353
> 72 Ge			1545066.909	ug/L	345349.437
[ 108 Cd	-0.096402	23.306	17.027	ug/L	9.137
[ 114 Cd	-0.016264	24.190	216.867	ug/L	81.468
> 115 In			1687589.080	ug/L	422066.967
[ 208 207.977	-0.022151	3.509	380.675	ug/L	205.669
[ 207 Pb	-0.023558	6.898	155.335	ug/L	86.667
[ 206 Pb	-0.021190	6.242	208.669	ug/L	108.667
> 169 Tm			1332445.813	ug/L	336428.803
[ 106 Pd	0.197801	85.167	34.667	ug/L	22.333
[ 83 Kr	3670.056386	20.649	390.675	ug/L	146.001
[ 182 W			4.000	ug/L	0.333

Report Date/Time: Wednesday, November 22, 2006 17:42:18

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### Internal Standard Recoveries

	Analyte Mass	Int Std % Recovery
[>	Li-1 6	250.407
[	Be 9	
[	Al 27	
	Cr 52	
	Mn 55	
	Co 59	
	Ni 60	
	Cu 65	
	Zn 68	
	As 75	
[>	Ge-1 72	447.392
[	Cd 111	
	Sb 121	
	Ba 135	
[>	In-1 115	399.839
[	Pb 208	
[>	Tm-1 169	396.056
[	Cr 50	
	Cr 53	
	Ni 61	
	Cu 63	
	Zn 67	
	Zn 66	
[>	Ge 72	447.392
[	Cd 108	
	Cd 114	
[>	In 115	399.839
[	207.977 208	
	Pb 207	
	Pb 206	
[>	Tm 169	396.056
	Pd 106	
	Kr 83	
	W 182	

SOP No. SAC-MT-0001

BJones

Sample ID: Blank

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 17:44:50

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\Blank.002

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			662549.582	ug/L	
[ 9 Be			2.667	ug/L	
[ 27 Al			109698.073	ug/L	
[ 52 Cr			18225.965	ug/L	
[ 55 Mn			3420.669	ug/L	
[ 59 Co			73.334	ug/L	
[ 60 Ni			187.632	ug/L	
[ 65 Cu			275.978	ug/L	
[ 68 Zn			2065.244	ug/L	
[ 75 As			14612.198	ug/L	
> 72 Ge-1			1636059.066	ug/L	
[ 111 Cd			39.786	ug/L	
[ 121 Sb			172.002	ug/L	
[ 135 Ba			324.339	ug/L	
> 115 In-1			1748778.775	ug/L	
[ 208 Pb			938.686	ug/L	
> 169 Tm-1			1297351.469	ug/L	
[ 50 Cr			-253.029	ug/L	
[ 53 Cr			27338.540	ug/L	
[ 61 Ni			2459.969	ug/L	
[ 63 Cu			204.340	ug/L	
[ 67 Zn			1457.673	ug/L	
[ 66 Zn			570.719	ug/L	
> 72 Ge			1636059.066	ug/L	
[ 108 Cd			34.781	ug/L	
[ 114 Cd			137.294	ug/L	
> 115 In			1748778.775	ug/L	
[ 208 207.977			475.346	ug/L	
[ 207 Pb			203.002	ug/L	
[ 206 Pb			260.337	ug/L	
> 169 Tm			1297351.469	ug/L	
[ 106 Pd			49.667	ug/L	
[ 83 Kr			357.674	ug/L	
[ 182 W			6.667	ug/L	

Report Date/Time: Wednesday, November 22, 2006 17:46:25

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### Internal Standard Recoveries

	Analyte Mass	Int Std % Recovery
[>	Li-1	6
[	Be	9
[	Al	27
	Cr	52
	Mn	55
	Co	59
	Ni	60
	Cu	65
	Zn	68
	As	75
[>	Ge-1	72
[	Cd	111
	Sb	121
	Ba	135
[>	In-1	115
[	Pb	208
[>	Tm-1	169
[	Cr	50
	Cr	53
	Ni	61
	Cu	63
	Zn	67
	Zn	66
[>	Ge	72
[	Cd	108
	Cd	114
[>	In	115
[	207.977	208
	Pb	207
	Pb	206
[>	Tm	169
	Pd	106
	Kr	83
	W	182

SOP No. SAC-MT-0001

BJones

**Sample ID: Standard 1**

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 17:48:52

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\Standard 1.003

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			689936.004	ug/L	662549.582
[ 9 Be	100.000000	1.719	30391.361	ug/L	2.667
[ 27 Al	5100.000000	2.306	33290932.901	ug/L	109698.073
[ 52 Cr	100.000000	1.680	952123.645	ug/L	18225.965
[ 55 Mn	100.000000	1.814	1476521.938	ug/L	3420.669
[ 59 Co	100.000000	1.694	1113776.417	ug/L	73.334
[ 60 Ni	100.000000	1.177	236831.360	ug/L	187.632
[ 65 Cu	100.000000	1.010	247260.639	ug/L	275.978
[ 68 Zn	100.000000	1.303	98615.979	ug/L	2065.244
[ 75 As	100.000000	1.134	246795.023	ug/L	14612.198
> 72 Ge-1			1679608.280	ug/L	1636059.066
[ 111 Cd	100.000000	2.269	229198.546	ug/L	39.786
[ 121 Sb	50.000000	1.823	349102.460	ug/L	172.002
[ 135 Ba	100.000000	1.957	230064.997	ug/L	324.339
> 115 In-1			1744803.142	ug/L	1748778.775
[ 208 Pb	100.000000	2.391	2488129.234	ug/L	938.686
> 169 Tm-1			1261663.419	ug/L	1297351.469
[ 50 Cr	100.000000	7.723	22634.023	ug/L	-253.029
[ 53 Cr	100.000000	5.972	68616.716	ug/L	27338.540
[ 61 Ni	100.000000	7.014	6407.900	ug/L	2459.969
[ 63 Cu	100.000000	1.117	180528.441	ug/L	204.340
[ 67 Zn	100.000000	2.354	9343.620	ug/L	1457.673
[ 66 Zn	100.000000	1.612	46206.467	ug/L	570.719
> 72 Ge			1679608.280	ug/L	1636059.066
[ 108 Cd	100.000000	1.451	16201.656	ug/L	34.781
[ 114 Cd	100.000000	1.938	522750.184	ug/L	137.294
> 115 In			1744803.142	ug/L	1748778.775
> 208 207.977	100.000000	2.883	1252978.030	ug/L	475.346
[ 207 Pb	100.000000	2.333	523370.453	ug/L	203.002
[ 206 Pb	100.000000	1.723	711780.752	ug/L	260.337
> 169 Tm			1261663.419	ug/L	1297351.469
[ 106 Pd	100.000000	0.392	21473.317	ug/L	49.667
[ 83 Kr	100.000000	52.801	411.010	ug/L	357.674
[ 182 W			84.334	ug/L	6.667

Report Date/Time: Wednesday, November 22, 2006 17:50:26

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### Internal Standard Recoveries

	Analyte Mass	Int Std % Recovery
[>	Li-1	6
[	Be	9
[	Al	27
	Cr	52
	Mn	55
	Co	59
	Ni	60
	Cu	65
	Zn	68
	As	75
[>	Ge-1	72
[	Cd	111
	Sb	121
	Ba	135
[>	In-1	115
[	Pb	208
[>	Tm-1	169
[	Cr	50
	Cr	53
	Ni	61
	Cu	63
	Zn	67
	Zn	66
[>	Ge	72
[	Cd	108
	Cd	114
[>	In	115
[	207.977	208
	Pb	207
	Pb	206
[>	Tm	169
	Pd	106
	Kr	83
	W	182

SOP No. SAC-MT-0001

BJones

Sample ID: ICV

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 17:52:32

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\ICV.004

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 3

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			743195.421	ug/L	662549.582
[ 9 Be	79.054141	0.754	25882.223	ug/L	2.667
[ 27 Al	776.816766	0.621	5299817.974	ug/L	109698.073
[ 52 Cr	78.804070	1.121	773772.304	ug/L	18225.965
[ 55 Mn	81.448080	0.957	1234324.917	ug/L	3420.669
[ 59 Co	79.497907	0.176	908322.302	ug/L	73.334
[ 60 Ni	78.844169	0.982	191586.873	ug/L	187.632
[ 65 Cu	78.811294	0.372	199952.900	ug/L	275.978
[ 68 Zn	79.632515	0.294	80997.505	ug/L	2065.244
[ 75 As	75.677400	0.471	195326.549	ug/L	14612.198
> 72 Ge-1			1722768.120	ug/L	1636059.066
[ 111 Cd	78.390939	0.252	184090.621	ug/L	39.786
[ 121 Sb	37.977053	1.767	271659.836	ug/L	172.002
[ 135 Ba	74.841285	0.657	176485.419	ug/L	324.339
> 115 In-1			1787125.763	ug/L	1748778.775
[ 208 Pb	84.300107	1.055	2051279.090	ug/L	938.686
> 169 Tm-1			1233660.115	ug/L	1297351.469
[ 50 Cr	68.791044	6.784	15882.380	ug/L	-253.029
[ 53 Cr	77.647994	5.142	61099.128	ug/L	27338.540
[ 61 Ni	71.699347	3.748	5447.078	ug/L	2459.969
[ 63 Cu	78.159351	0.752	144787.748	ug/L	204.340
[ 67 Zn	78.604538	2.491	7861.546	ug/L	1457.673
[ 66 Zn	79.172491	1.519	37650.135	ug/L	570.719
> 72 Ge			1722768.120	ug/L	1636059.066
[ 108 Cd	76.271878	0.757	12667.129	ug/L	34.781
[ 114 Cd	78.537456	0.168	420648.053	ug/L	137.294
> 115 In			1787125.763	ug/L	1748778.775
[ 208 207.977	83.982518	1.297	1029107.709	ug/L	475.346
[ 207 Pb	84.368610	0.796	431841.037	ug/L	203.002
[ 206 Pb	84.808825	1.004	590330.344	ug/L	260.337
> 169 Tm			1233660.115	ug/L	1297351.469
[ 106 Pd	79.853207	0.622	17157.138	ug/L	49.667
[ 83 Kr	84.999921	32.495	403.009	ug/L	357.674
[ 182 W			21.667	ug/L	6.667

Report Date/Time: Wednesday, November 22, 2006 17:54:07

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	112.172
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	105.300
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	102.193
[ Pb	208	
[> Tm-1	169	95.091
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	105.300
[ Cd	108	
[ Cd	114	
[> In	115	102.193
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	95.091
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: ICB

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 17:56:18

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\ICB.005

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			753670.017	ug/L	662549.582
[ 9 Be	-0.001193	576.799	2.667	ug/L	2.667
[ 27 Al	-0.050364	423.004	114483.414	ug/L	109698.073
52 Cr	0.018204	101.177	19250.152	ug/L	18225.965
55 Mn	0.006377	121.760	3675.772	ug/L	3420.669
59 Co	0.001083	99.734	89.000	ug/L	73.334
60 Ni	-0.003041	42.121	189.049	ug/L	187.632
65 Cu	-0.011459	31.746	259.973	ug/L	275.978
68 Zn	-0.114512	98.764	2048.573	ug/L	2065.244
75 As	-0.242466	62.631	14720.113	ug/L	14612.198
> 72 Ge-1			1712531.935	ug/L	1636059.066
[ 111 Cd	0.002472	214.985	46.150	ug/L	39.786
[ 121 Sb	0.294658	10.711	2265.962	ug/L	172.002
135 Ba	-0.020777	41.655	280.338	ug/L	324.339
> 115 In-1			1772924.135	ug/L	1748778.775
[ 208 Pb	0.004759	42.989	997.689	ug/L	938.686
> 169 Tm-1			1220641.892	ug/L	1297351.469
[ 50 Cr	0.091791	79.045	-243.336	ug/L	-253.029
[ 53 Cr	-2.007756	17.766	27785.993	ug/L	27338.540
61 Ni	-3.092962	24.726	2452.295	ug/L	2459.969
63 Cu	-0.001940	83.816	210.340	ug/L	204.340
67 Zn	-1.237223	56.534	1426.993	ug/L	1457.673
66 Zn	-0.167404	63.351	519.377	ug/L	570.719
> 72 Ge			1712531.935	ug/L	1636059.066
[ 108 Cd	-0.036918	191.849	29.164	ug/L	34.781
[ 114 Cd	-0.001285	17.179	132.349	ug/L	137.294
> 115 In			1772924.135	ug/L	1748778.775
[ 208 207.977	0.006204	43.433	522.349	ug/L	475.346
207 Pb	0.001913	149.103	200.669	ug/L	203.002
206 Pb	0.004310	31.659	274.671	ug/L	260.337
> 169 Tm			1220641.892	ug/L	1297351.469
[ 106 Pd	-0.009336	505.800	47.667	ug/L	49.667
83 Kr	86.874918	23.741	404.009	ug/L	357.674
[ 182 W			3.000	ug/L	6.667

Report Date/Time: Wednesday, November 22, 2006 17:57:53

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	113.753
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	104.674
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	101.381
[ Pb	208	
[> Tm-1	169	94.087
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	104.674
[ Cd	108	
[ Cd	114	
[> In	115	101.381
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	94.087
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: LLSTD 10X

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:00:08

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\LLSTD 10X.006

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 9

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			822784.968	ug/L	662549.582
[ 9 Be	0.856266	7.210	313.672	ug/L	2.667
[ 27 Al	41.154002	0.498	412783.806	ug/L	109698.073
[ 52 Cr	1.006014	4.165	30496.730	ug/L	18225.965
[ 55 Mn	1.152216	0.953	22230.874	ug/L	3420.669
[ 59 Co	1.016583	2.256	12368.738	ug/L	73.334
[ 60 Ni	0.998919	4.638	2774.198	ug/L	187.632
[ 65 Cu	1.075268	1.206	3189.579	ug/L	275.978
[ 68 Zn	10.688636	1.645	13493.731	ug/L	2065.244
[ 75 As	-0.114393	148.556	15991.295	ug/L	14612.198
> 72 Ge-1			1822646.636	ug/L	1636059.066
[ 111 Cd	0.868792	5.006	2334.598	ug/L	39.786
[ 121 Sb	0.513315	3.003	4317.065	ug/L	172.002
[ 135 Ba	0.839315	3.199	2590.384	ug/L	324.339
> 115 In-1			2006274.493	ug/L	1748778.775
[ 208 Pb	1.072007	0.398	29070.817	ug/L	938.686
> 169 Tm-1			1329806.549	ug/L	1297351.469
[ 50 Cr	1.805176	0.696	166.487	ug/L	-253.029
[ 53 Cr	-4.884014	11.101	28306.635	ug/L	27338.540
[ 61 Ni	3.560424	83.690	2890.671	ug/L	2459.969
[ 63 Cu	1.095896	1.293	2372.233	ug/L	204.340
[ 67 Zn	6.908138	4.500	2212.116	ug/L	1457.673
[ 66 Zn	11.135454	0.875	6149.044	ug/L	570.719
> 72 Ge			1822646.636	ug/L	1636059.066
[ 108 Cd	0.573238	2.646	146.487	ug/L	34.781
[ 114 Cd	0.874501	1.767	5414.263	ug/L	137.294
> 115 In			2006274.493	ug/L	1748778.775
[ 208 207.977	1.083546	0.837	14795.166	ug/L	475.346
[ 207 Pb	1.039084	0.951	5939.015	ug/L	203.002
[ 206 Pb	1.075902	0.563	8336.636	ug/L	260.337
> 169 Tm			1329806.549	ug/L	1297351.469
[ 106 Pd	0.838650	9.185	229.336	ug/L	49.667
[ 83 Kr	88.749915	7.617	405.009	ug/L	357.674
[ 182 W			10.000	ug/L	6.667

Report Date/Time: Wednesday, November 22, 2006 18:01:41

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	124.185
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	111.405
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	114.724
[ Pb	208	
[> Tm-1	169	102.502
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	111.405
[ Cd	108	
[ Cd	114	
[> In	115	114.724
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	102.502
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: LLSTD 5X

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:03:22

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\LLSTD 5X.007

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 10

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			819158.362	ug/L	662549.582
[ 9 Be	1.787824	1.998	648.357	ug/L	2.667
[ 27 Al	91.673485	1.233	765126.887	ug/L	109698.073
[ 52 Cr	1.908490	2.323	39414.245	ug/L	18225.965
[ 55 Mn	2.226319	1.285	39179.195	ug/L	3420.669
[ 59 Co	1.998226	0.820	24097.471	ug/L	73.334
[ 60 Ni	2.047951	1.634	5437.519	ug/L	187.632
[ 65 Cu	2.095439	2.043	5890.298	ug/L	275.978
[ 68 Zn	15.138512	1.120	18051.268	ug/L	2065.244
[ 75 As	0.881318	16.051	18391.060	ug/L	14612.198
> 72 Ge-1			1812341.229	ug/L	1636059.066
[ 111 Cd	1.717206	1.811	4645.709	ug/L	39.786
[ 121 Sb	0.882136	0.573	7395.124	ug/L	172.002
[ 135 Ba	1.667031	1.949	4854.013	ug/L	324.339
> 115 In-1			2038801.140	ug/L	1748778.775
[ 208 Pb	2.119632	1.506	56875.406	ug/L	938.686
> 169 Tm-1			1337751.752	ug/L	1297351.469
[ 50 Cr	3.039134	4.237	470.303	ug/L	-253.029
[ 53 Cr	-6.676542	26.226	27361.661	ug/L	27338.540
[ 61 Ni	4.516872	21.258	2914.359	ug/L	2459.969
[ 63 Cu	2.078388	1.835	4270.583	ug/L	204.340
[ 67 Zn	11.577907	4.065	2595.077	ug/L	1457.673
[ 66 Zn	15.645500	1.074	8334.433	ug/L	570.719
> 72 Ge			1812341.229	ug/L	1636059.066
[ 108 Cd	1.339137	5.866	293.567	ug/L	34.781
[ 114 Cd	1.731142	0.605	10734.652	ug/L	137.294
> 115 In			2038801.140	ug/L	1748778.775
[ 208 207.977	2.146614	2.379	29002.666	ug/L	475.346
[ 207 Pb	2.076873	1.422	11732.863	ug/L	203.002
[ 206 Pb	2.103574	2.568	16139.876	ug/L	260.337
> 169 Tm			1337751.752	ug/L	1297351.469
[ 106 Pd	1.962065	10.714	470.013	ug/L	49.667
[ 83 Kr	35.624940	153.476	376.675	ug/L	357.674
[ 182 W			4.333	ug/L	6.667

Report Date/Time: Wednesday, November 22, 2006 18:04:55

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
> Li-1	6	123.637
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
> Ge-1	72	110.775
[ Cd	111	
[ Sb	121	
[ Ba	135	
> In-1	115	116.584
[ Pb	208	
> Tm-1	169	103.114
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
> Ge	72	110.775
[ Cd	108	
[ Cd	114	
> In	115	116.584
[ 207.977	208	
[ Pb	207	
[ Pb	206	
> Tm	169	103.114
[ Pd	106	
[ Kr	83	
[ W	182	

**BJones**

**Sample ID: ICSA**

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:09:25

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\ICSA.008

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			541540.429	ug/L	662549.582
9 Be	0.033927	31.760	10.333	ug/L	2.667
27 Al	111921.020916	0.588	604671664.695	ug/L	109698.073
52 Cr	3.583998	6.251	43319.794	ug/L	18225.965
55 Mn	5.255228	0.802	67191.022	ug/L	3420.669
59 Co	2.820994	1.172	26150.695	ug/L	73.334
60 Ni	3.407152	4.818	6854.163	ug/L	187.632
65 Cu	0.258254	89.263	766.738	ug/L	275.978
68 Zn	2.194317	4.727	3518.708	ug/L	2065.244
75 As	0.946899	44.676	14277.753	ug/L	14612.198
> 72 Ge-1			1394435.761	ug/L	1636059.066
111 Cd	0.447597	29.242	839.004	ug/L	39.786
121 Sb	0.342114	0.676	2017.566	ug/L	172.002
135 Ba	0.874598	2.545	1839.527	ug/L	324.339
> 115 In-1			1375355.593	ug/L	1748778.775
208 Pb	0.756974	1.150	16330.241	ug/L	938.686
> 169 Tm-1			1043596.712	ug/L	1297351.469
50 Cr	192.097038	7.710	36274.560	ug/L	-253.029
53 Cr	45.040639	5.124	38468.693	ug/L	27338.540
61 Ni	48.234864	7.477	3652.802	ug/L	2459.969
63 Cu	5.181786	1.513	7932.726	ug/L	204.340
67 Zn	29.389231	4.677	3156.594	ug/L	1457.673
66 Zn	7.297277	4.027	3251.025	ug/L	570.719
> 72 Ge			1394435.761	ug/L	1636059.066
108 Cd	69.301931	5.074	8862.581	ug/L	34.781
114 Cd	3.968330	3.282	16462.511	ug/L	137.294
> 115 In			1375355.593	ug/L	1748778.775
208 207.977	0.783350	2.023	8498.792	ug/L	475.346
207 Pb	0.749404	0.937	3406.997	ug/L	203.002
206 Pb	0.716110	2.078	4424.452	ug/L	260.337
> 169 Tm			1043596.712	ug/L	1297351.469
106 Pd	1.551284	7.321	382.008	ug/L	49.667
83 Kr	828.768381	8.467	799.703	ug/L	357.674
182 W			852.116	ug/L	6.667

Report Date/Time: Wednesday, November 22, 2006 18:10:58

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	81.736
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	85.231
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	78.647
[ Pb	208	
[> Tm-1	169	80.441
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	85.231
[ Cd	108	
[ Cd	114	
[> In	115	78.647
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	80.441
[ Pd	106	
[ Kr	83	
[ W	182	

**Sample ID: ICSAB**

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:13:08

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\ICSAB.009

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			521071.655	ug/L	662549.582
[ 9 Be	100.175240	0.624	22993.520	ug/L	2.667
[ 27 Al	111143.788996	1.230	613765507.664	ug/L	109698.073
[ 52 Cr	112.589420	0.936	907753.772	ug/L	18225.965
[ 55 Mn	110.287927	1.030	1381601.675	ug/L	3420.669
[ 59 Co	109.067988	0.987	1030928.879	ug/L	73.334
[ 60 Ni	105.466716	0.167	211963.724	ug/L	187.632
[ 65 Cu	95.062241	0.216	199481.548	ug/L	275.978
[ 68 Zn	93.269146	0.277	78175.346	ug/L	2065.244
[ 75 As	106.700100	0.330	222617.679	ug/L	14612.198
> 72 Ge-1			1425252.492	ug/L	1636059.066
[ 111 Cd	98.765677	0.820	184371.765	ug/L	39.786
[ 121 Sb	53.143279	0.301	302155.154	ug/L	172.002
[ 135 Ba	111.004208	0.783	207963.784	ug/L	324.339
> 115 In-1			1420675.557	ug/L	1748778.775
[ 208 Pb	90.209424	1.024	1869746.381	ug/L	938.686
> 169 Tm-1			1050801.544	ug/L	1297351.469
[ 50 Cr	274.579934	4.779	53098.298	ug/L	-253.029
[ 53 Cr	142.646851	3.308	72930.640	ug/L	27338.540
[ 61 Ni	155.219554	1.661	7259.423	ug/L	2459.969
[ 63 Cu	102.133434	0.529	156464.331	ug/L	204.340
[ 67 Zn	125.672245	0.702	9638.175	ug/L	1457.673
[ 66 Zn	100.518178	0.586	39414.367	ug/L	570.719
> 72 Ge			1425252.492	ug/L	1636059.066
[ 108 Cd	170.137793	0.853	22427.816	ug/L	34.781
[ 114 Cd	102.223144	0.372	435207.189	ug/L	137.294
> 115 In			1420675.557	ug/L	1748778.775
[ 208 207.977	90.057490	0.926	940007.026	ug/L	475.346
[ 207 Pb	89.901611	1.027	391957.715	ug/L	203.002
[ 206 Pb	90.703230	1.315	537781.640	ug/L	260.337
> 169 Tm			1050801.544	ug/L	1297351.469
[ 106 Pd	81.137819	1.076	17432.349	ug/L	49.667
[ 83 Kr	940.649075	7.909	859.376	ug/L	357.674
[ 182 W			891.794	ug/L	6.667

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
> Li-1	6	78.646
[ Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	87.115
[ Cd	111	
Sb	121	
Ba	135	
> In-1	115	81.238
[ Pb	208	
> Tm-1	169	80.996
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	87.115
[ Cd	108	
Cd	114	
> In	115	81.238
[ 207.977	208	
Pb	207	
Pb	206	
> Tm	169	80.996
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: Rinse**

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:17:14

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\Rinse.010

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			735426.405	ug/L	662549.582
[ 9 Be	-0.003975	118.574	1.667	ug/L	2.667
[ 27 Al	-8.518174	3.465	70601.481	ug/L	109698.073
[ 52 Cr	0.863712	21.184	33044.742	ug/L	18225.965
[ 55 Mn	-0.119849	2.229	2155.599	ug/L	3420.669
[ 59 Co	0.002189	30.446	123.001	ug/L	73.334
[ 60 Ni	-0.043312	9.211	111.331	ug/L	187.632
[ 65 Cu	-0.001228	546.056	345.994	ug/L	275.978
[ 68 Zn	0.684708	5.826	3433.340	ug/L	2065.244
[ 75 As	0.339946	20.665	19493.253	ug/L	14612.198
> 72 Ge-1			2073688.426	ug/L	1636059.066
[ 111 Cd	0.002493	320.602	52.959	ug/L	39.786
[ 121 Sb	-0.004862	21.912	160.668	ug/L	172.002
[ 135 Ba	-0.017918	12.138	329.673	ug/L	324.339
> 115 In-1			2036804.434	ug/L	1748778.775
[ 208 Pb	-0.003922	32.898	846.683	ug/L	938.686
> 169 Tm-1			1310527.413	ug/L	1297351.469
[ 50 Cr	-0.238994	64.792	-388.036	ug/L	-253.029
[ 53 Cr	7.600250	49.734	38448.003	ug/L	27338.540
[ 61 Ni	-0.494477	427.515	3093.865	ug/L	2459.969
[ 63 Cu	0.015122	34.438	292.680	ug/L	204.340
[ 67 Zn	0.487962	369.727	1893.910	ug/L	1457.673
[ 66 Zn	0.598627	6.015	1060.513	ug/L	570.719
> 72 Ge			2073688.426	ug/L	1636059.066
[ 108 Cd	0.023807	114.643	44.991	ug/L	34.781
[ 114 Cd	0.004528	29.278	187.506	ug/L	137.294
> 115 In			2036804.434	ug/L	1748778.775
[ 208 207.977	-0.003180	55.852	438.678	ug/L	475.346
[ 207 Pb	-0.006440	31.041	170.002	ug/L	203.002
[ 206 Pb	-0.003378	20.020	238.003	ug/L	260.337
> 169 Tm			1310527.413	ug/L	1297351.469
[ 106 Pd	-0.048234	112.995	39.333	ug/L	49.667
[ 83 Kr	267.501337	17.373	500.348	ug/L	357.674
[ 182 W			10.333	ug/L	6.667

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
> Li-1	6	110.999
{ Be	9	
{ Al	27	
{ Cr	52	
{ Mn	55	
{ Co	59	
{ Ni	60	
{ Cu	65	
{ Zn	68	
{ As	75	
> Ge-1	72	126.749
{ Cd	111	
{ Sb	121	
{ Ba	135	
> In-1	115	116.470
{ Pb	208	
> Tm-1	169	101.016
{ Cr	50	
{ Cr	53	
{ Ni	61	
{ Cu	63	
{ Zn	67	
{ Zn	66	
> Ge	72	126.749
{ Cd	108	
{ Cd	114	
> In	115	116.470
{ 207.977	208	
{ Pb	207	
{ Pb	206	
> Tm	169	101.016
{ Pd	106	
{ Kr	83	
{ W	182	

SOP No. SAC-MT-0001

BJones

## Sample ID: CCV 1

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:21:01

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCV 1.011

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			808953.371	ug/L	662549.582
[ 9 Be	103.503709	2.585	36873.200	ug/L	2.667
[ 27 Al	4771.048474	1.910	39137035.561	ug/L	109698.073
[ 52 Cr	99.252848	0.863	1187571.694	ug/L	18225.965
[ 55 Mn	102.822680	0.876	1907405.043	ug/L	3420.669
[ 59 Co	98.650310	1.627	1380450.758	ug/L	73.334
[ 60 Ni	100.739821	0.513	299770.042	ug/L	187.632
[ 65 Cu	97.258177	1.006	302149.903	ug/L	275.978
[ 68 Zn	99.818130	1.358	123675.583	ug/L	2065.244
[ 75 As	99.748376	0.825	309347.110	ug/L	14612.198
> 72 Ge-1			2110254.883	ug/L	1636059.066
[ 111 Cd	101.399450	0.757	260978.884	ug/L	39.786
[ 121 Sb	50.051267	0.853	392357.459	ug/L	172.002
[ 135 Ba	93.901917	0.210	242604.605	ug/L	324.339
> 115 In-1			1958723.507	ug/L	1748778.775
[ 208 Pb	101.799504	0.993	2626443.435	ug/L	938.686
> 169 Tm-1			1308057.336	ug/L	1297351.469
[ 50 Cr	102.735136	1.763	29221.815	ug/L	-253.029
[ 53 Cr	89.991675	3.192	81121.445	ug/L	27338.540
[ 61 Ni	91.967790	2.042	7661.046	ug/L	2459.969
[ 63 Cu	98.593088	0.798	223633.660	ug/L	204.340
[ 67 Zn	96.371589	1.966	11379.682	ug/L	1457.673
[ 66 Zn	98.948899	1.643	57447.902	ug/L	570.719
> 72 Ge			2110254.883	ug/L	1636059.066
[ 108 Cd	101.228476	0.847	18413.844	ug/L	34.781
[ 114 Cd	100.795727	0.833	591650.685	ug/L	137.294
> 115 In			1958723.507	ug/L	1748778.775
[ 208 207.977	101.836275	0.933	1323142.434	ug/L	475.346
[ 207 Pb	101.793545	1.284	552434.300	ug/L	203.002
[ 206 Pb	101.739153	0.965	750866.701	ug/L	260.337
> 169 Tm			1308057.336	ug/L	1297351.469
[ 106 Pd	114.088393	1.131	24491.565	ug/L	49.667
[ 83 Kr	358.127747	6.290	548.684	ug/L	357.674
[ 182 W			92.335	ug/L	6.667

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	122.097
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	128.984
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	112.005
[ Pb	208	
[> Tm-1	169	100.825
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	128.984
[ Cd	108	
[ Cd	114	
[> In	115	112.005
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	100.825
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 1

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:24:48

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCB 1.012

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			854235.854	ug/L	662549.582
[ 9 Be	0.000568	1070.488	3.667	ug/L	2.667
[ 27 Al	-0.756538	22.127	134965.982	ug/L	109698.073
[ 52 Cr	0.360930	23.722	27671.053	ug/L	18225.965
[ 55 Mn	0.006780	13.787	4526.170	ug/L	3420.669
[ 59 Co	0.001575	81.899	116.334	ug/L	73.334
[ 60 Ni	-0.007772	40.539	218.354	ug/L	187.632
[ 65 Cu	-0.007895	63.763	330.637	ug/L	275.978
[ 68 Zn	-0.200450	14.278	2414.667	ug/L	2065.244
[ 75 As	0.023407	698.407	18867.308	ug/L	14612.198
> 72 Ge-1			2104942.104	ug/L	1636059.066
[ 111 Cd	0.001852	175.884	49.935	ug/L	39.786
[ 121 Sb	0.152642	14.718	1405.114	ug/L	172.002
[ 135 Ba	-0.026031	12.862	299.672	ug/L	324.339
> 115 In-1			1982073.555	ug/L	1748778.775
[ 208 Pb	0.004911	3.504	1090.359	ug/L	938.686
> 169 Tm-1			1329102.281	ug/L	1297351.469
[ 50 Cr	0.073019	191.895	-304.545	ug/L	-253.029
[ 53 Cr	-9.569496	24.685	30306.384	ug/L	27338.540
[ 61 Ni	-10.500108	16.879	2653.794	ug/L	2459.969
[ 63 Cu	0.001977	603.540	267.345	ug/L	204.340
[ 67 Zn	-3.894341	25.064	1492.357	ug/L	1457.673
[ 66 Zn	-0.248151	25.223	592.390	ug/L	570.719
> 72 Ge			2104942.104	ug/L	1636059.066
[ 108 Cd	-0.053894	162.949	29.486	ug/L	34.781
[ 114 Cd	-0.002300	90.150	141.940	ug/L	137.294
> 115 In			1982073.555	ug/L	1748778.775
[ 208 207.977	0.005407	16.128	558.351	ug/L	475.346
[ 207 Pb	0.002793	45.164	223.336	ug/L	203.002
[ 206 Pb	0.005595	16.690	308.672	ug/L	260.337
> 169 Tm			1329102.281	ug/L	1297351.469
[ 106 Pd	0.026451	123.949	55.334	ug/L	49.667
[ 83 Kr	218.750784	24.803	474.346	ug/L	357.674
[ 182 W			5.333	ug/L	6.667

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	128.932
[ Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	128.659
[ Cd	111	
Sb	121	
Ba	135	
[> In-1	115	113.340
[ Pb	208	
[> Tm-1	169	102.447
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	128.659
[ Cd	108	
Cd	114	
[> In	115	113.340
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	102.447
Pd	106	
Kr	83	
W	182	

**BJones**

**Sample ID: BLK RECAL**

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:24:48

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCB 1.012

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			854235.854	ug/L	
[ 9 Be			3.667	ug/L	
[ 27 Al			134965.982	ug/L	
[ 52 Cr			27671.053	ug/L	
[ 55 Mn			4526.170	ug/L	
[ 59 Co			116.334	ug/L	
[ 60 Ni			218.354	ug/L	
[ 65 Cu			330.637	ug/L	
[ 68 Zn			2414.667	ug/L	
[ 75 As			18867.308	ug/L	
> 72 Ge-1			2104942.104	ug/L	
[ 111 Cd			49.935	ug/L	
[ 121 Sb			1405.114	ug/L	
[ 135 Ba			299.672	ug/L	
> 115 In-1			1982073.555	ug/L	
[ 208 Pb			1090.359	ug/L	
> 169 Tm-1			1329102.281	ug/L	
[ 50 Cr			-304.545	ug/L	
[ 53 Cr			30306.384	ug/L	
[ 61 Ni			2653.794	ug/L	
[ 63 Cu			267.345	ug/L	
[ 67 Zn			1492.357	ug/L	
[ 66 Zn			592.390	ug/L	
> 72 Ge			2104942.104	ug/L	
[ 108 Cd			29.486	ug/L	
[ 114 Cd			141.940	ug/L	
> 115 In			1982073.555	ug/L	
[ 208 207.977			558.351	ug/L	
[ 207 Pb			223.336	ug/L	
[ 206 Pb			308.672	ug/L	
> 169 Tm			1329102.281	ug/L	
[ 106 Pd			55.334	ug/L	
[ 83 Kr			474.346	ug/L	
[ 182 W			5.333	ug/L	

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	
[ Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	
[ Cd	111	
Sb	121	
Ba	135	
[> In-1	115	
[ Pb	208	
[> Tm-1	169	
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	
[ Cd	108	
Cd	114	
[> In	115	
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: STD1 RECAL

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:21:01

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCV 1.011

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			808953.371	ug/L	854235.854
> 9 Be	100.000000	2.585	36873.200	ug/L	3.667
> 27 Al	5100.000000	1.910	39137035.561	ug/L	134965.982
> 52 Cr	100.000000	0.866	1187571.694	ug/L	27671.053
> 55 Mn	100.000000	0.876	1907405.043	ug/L	4526.170
> 59 Co	100.000000	1.627	1380450.758	ug/L	116.334
> 60 Ni	100.000000	0.513	299770.042	ug/L	218.354
> 65 Cu	100.000000	1.006	302149.903	ug/L	330.637
> 68 Zn	100.000000	1.355	123675.583	ug/L	2414.667
> 75 As	100.000000	0.825	309347.110	ug/L	18867.308
> 72 Ge-1			2110254.883	ug/L	2104942.104
> 111 Cd	100.000000	0.757	260978.884	ug/L	49.935
> 121 Sb	50.000000	0.856	392357.459	ug/L	1405.114
> 135 Ba	100.000000	0.210	242604.605	ug/L	299.672
> 115 In-1			1958723.507	ug/L	1982073.555
> 208 Pb	100.000000	0.993	2626443.435	ug/L	1090.359
> 169 Tm-1			1308057.336	ug/L	1329102.281
> 50 Cr	100.000000	1.764	29221.815	ug/L	-304.545
> 53 Cr	100.000000	2.885	81121.445	ug/L	30306.384
> 61 Ni	100.000000	1.833	7661.046	ug/L	2653.794
> 63 Cu	100.000000	0.798	223633.660	ug/L	267.345
> 67 Zn	100.000000	1.889	11379.682	ug/L	1492.357
> 66 Zn	100.000000	1.639	57447.902	ug/L	592.390
> 72 Ge			2110254.883	ug/L	2104942.104
> 108 Cd	100.000000	0.847	18413.844	ug/L	29.486
> 114 Cd	100.000000	0.833	591650.685	ug/L	141.940
> 115 In			1958723.507	ug/L	1982073.555
> 208 207.977	100.000000	0.933	1323142.434	ug/L	558.351
> 207 Pb	100.000000	1.284	552434.300	ug/L	223.336
> 206 Pb	100.000000	0.965	750866.701	ug/L	308.672
> 169 Tm			1308057.336	ug/L	1329102.281
> 106 Pd	100.000000	1.131	24491.565	ug/L	55.334
> 83 Kr	100.000000	16.162	548.684	ug/L	474.346
> 182 W			92.335	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 18:35:13

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	
[ Be	9	
[ Al	27	
] Cr	52	
] Mn	55	
] Co	59	
] Ni	60	
] Cu	65	
] Zn	68	
] As	75	
[> Ge-1	72	
[ Cd	111	
] Sb	121	
] Ba	135	
[> In-1	115	
[ Pb	208	
[> Tm-1	169	
[ Cr	50	
] Cr	53	
] Ni	61	
] Cu	63	
] Zn	67	
] Zn	66	
[> Ge	72	
[ Cd	108	
] Cd	114	
[> In	115	
[ 207.977	208	
] Pb	207	
] Pb	206	
[> Tm	169	
] Pd	106	
] Kr	83	
] W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 2

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:28:34

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCV 2.013

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			877124.476	ug/L	854235.854
[ 9 Be	97.832712	1.648	39121.597	ug/L	3.667
[ 27 Al	4886.201153	2.310	37783420.608	ug/L	134965.982
[ 52 Cr	98.161940	1.532	1174937.192	ug/L	27671.053
[ 55 Mn	99.895996	0.149	1919734.505	ug/L	4526.170
[ 59 Co	97.901111	1.203	1361767.795	ug/L	116.334
[ 60 Ni	97.555698	0.663	294636.323	ug/L	218.354
[ 65 Cu	98.389149	1.071	299506.811	ug/L	330.637
[ 68 Zn	98.816938	0.548	123160.045	ug/L	2414.667
[ 75 As	97.899658	0.692	305513.525	ug/L	18867.308
> 72 Ge-1			2125924.985	ug/L	2104942.104
[ 111 Cd	98.236801	1.405	255251.268	ug/L	49.935
[ 121 Sb	49.541328	1.012	387082.642	ug/L	1405.114
[ 135 Ba	97.964959	1.581	236629.690	ug/L	299.672
> 115 In-1			1950328.667	ug/L	1982073.555
[ 208 Pb	99.728577	0.170	2707010.757	ug/L	1090.359
> 169 Tm-1			1351812.959	ug/L	1329102.281
[ 50 Cr	100.033206	0.432	29445.437	ug/L	-304.545
[ 53 Cr	93.229685	3.190	78271.619	ug/L	30306.384
[ 61 Ni	92.175198	4.877	7323.576	ug/L	2653.794
[ 63 Cu	97.986215	2.243	220758.394	ug/L	267.345
[ 67 Zn	96.329899	2.192	11099.680	ug/L	1492.357
[ 66 Zn	100.353107	1.097	58083.859	ug/L	592.390
> 72 Ge			2125924.985	ug/L	2104942.104
[ 108 Cd	97.586960	0.772	17891.999	ug/L	29.486
[ 114 Cd	99.144646	1.402	584024.136	ug/L	141.940
> 115 In			1950328.667	ug/L	1982073.555
[ 208 207.977	99.379433	0.991	1358994.525	ug/L	558.351
[ 207 Pb	100.320476	0.573	572744.949	ug/L	223.336
[ 206 Pb	99.908326	0.816	775271.283	ug/L	308.672
> 169 Tm			1351812.959	ug/L	1329102.281
[ 106 Pd	98.153392	2.168	24040.323	ug/L	55.334
[ 83 Kr	95.515695	32.435	545.350	ug/L	474.346
[ 182 W			87.335	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 18:35:29

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	102.679
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	100.997
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	98.398
[ Pb	208	
[> Tm-f	169	101.709
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	100.997
[ Cd	108	
[ Cd	114	
[> In	115	98.398
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	101.709
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 2

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:32:20

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCB 2.014

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			881292.476	ug/L	854235.854
[ 9 Be	0.003769	129.621	5.333	ug/L	3.667
[ 27 Al	0.534813	67.986	137608.715	ug/L	134965.982
[ 52 Cr	-0.182434	64.523	25290.220	ug/L	27671.053
[ 55 Mn	0.002881	230.153	4532.173	ug/L	4526.170
[ 59 Co	0.001303	57.752	133.001	ug/L	116.334
[ 60 Ni	0.006113	23.996	234.146	ug/L	218.354
[ 65 Cu	-0.009029	76.138	300.101	ug/L	330.637
[ 68 Zn	-0.064471	157.435	2311.973	ug/L	2414.667
[ 75 As	-0.039602	242.052	18556.654	ug/L	18867.308
> 72 Ge-1			2083292.962	ug/L	2104942.104
[ 111 Cd	-0.007167	62.839	30.233	ug/L	49.935
[ 121 Sb	0.013476	154.109	1477.792	ug/L	1405.114
[ 135 Ba	0.010272	28.092	317.672	ug/L	299.672
> 115 In-1			1938531.510	ug/L	1982073.555
[ 208 Pb	0.002363	39.048	1173.364	ug/L	1090.359
> 169 Tm-1			1352048.682	ug/L	1329102.281
[ 50 Cr	0.030567	232.790	-292.723	ug/L	-304.545
[ 53 Cr	-5.871979	42.132	27041.593	ug/L	30306.384
[ 61 Ni	-1.370037	177.801	2558.048	ug/L	2653.794
[ 63 Cu	-0.009187	89.076	244.343	ug/L	267.345
[ 67 Zn	-1.100101	23.983	1369.634	ug/L	1492.357
[ 66 Zn	0.057540	136.071	618.395	ug/L	592.390
> 72 Ge			2083292.962	ug/L	2104942.104
[ 108 Cd	0.091925	71.641	45.621	ug/L	29.486
[ 114 Cd	-0.002124	272.616	126.597	ug/L	141.940
> 115 In			1938531.510	ug/L	1982073.555
> 208 207.977	0.002509	33.488	602.354	ug/L	558.351
[ 207 Pb	0.002964	109.527	244.003	ug/L	223.336
[ 206 Pb	0.001661	109.132	327.006	ug/L	308.672
> 169 Tm			1352048.682	ug/L	1329102.281
[ 106 Pd	-0.010913	444.234	52.667	ug/L	55.334
[ 83 Kr	13.901262	97.897	484.680	ug/L	474.346
[ 182 W			6.000	ug/L	5.333

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	103.167
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	98.972
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	97.803
[ Pb	208	
[> Tm-1	169	101.726
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	98.972
[ Cd	108	
[ Cd	114	
[> In	115	97.803
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	101.726
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: LLSTD 5X

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:37:32

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\LLSTD 5X.015

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 10

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			969870.545	ug/L	854235.854
[ 9 Be	1.759330	3.844	782.035	ug/L	3.667
[ 27 Al	90.173276	2.686	859016.059	ug/L	134965.982
[ 52 Cr	1.601668	3.196	48228.227	ug/L	27671.053
[ 55 Mn	2.279991	2.408	49898.566	ug/L	4526.170
[ 59 Co	2.017299	0.734	29119.040	ug/L	116.334
[ 60 Ni	2.031083	1.286	6562.931	ug/L	218.354
[ 65 Cu	2.112776	1.962	6984.978	ug/L	330.637
[ 68 Zn	16.072374	2.643	22813.040	ug/L	2414.667
[ 75 As	0.890704	22.337	22390.734	ug/L	18867.308
> 72 Ge-1			2197275.435	ug/L	2104942.104
[ 111 Cd	1.741641	1.721	5361.526	ug/L	49.935
[ 121 Sb	0.743948	2.455	8409.373	ug/L	1405.114
[ 135 Ba	1.726259	1.167	5227.895	ug/L	299.672
> 115 In-1			2286114.413	ug/L	1982073.555
[ 208 Pb	2.167685	0.802	64817.288	ug/L	1090.359
> 169 Tm-1			1462271.338	ug/L	1329102.281
[ 50 Cr	2.904037	18.772	574.918	ug/L	-304.545
[ 53 Cr	-11.314223	12.035	25654.919	ug/L	30306.384
[ 61 Ni	3.224034	74.523	2937.715	ug/L	2653.794
[ 63 Cu	2.118803	3.143	5206.669	ug/L	267.345
[ 67 Zn	12.263981	8.016	2819.939	ug/L	1492.357
[ 66 Zn	16.652169	3.143	10476.539	ug/L	592.390
> 72 Ge			2197275.435	ug/L	2104942.104
[ 108 Cd	1.403001	3.282	335.101	ug/L	29.486
[ 114 Cd	1.750399	0.405	12248.030	ug/L	141.940
> 115 In			2286114.413	ug/L	1982073.555
[ 208 207.977	2.209670	0.710	33283.850	ug/L	558.351
[ 207 Pb	2.107782	1.958	13256.368	ug/L	223.336
[ 206 Pb	2.137777	0.249	18277.070	ug/L	308.672
> 169 Tm			1462271.338	ug/L	1329102.281
[ 106 Pd	1.879784	2.504	514.682	ug/L	55.334
[ 83 Kr	-27.802577	82.731	453.678	ug/L	474.346
[ 182 W			6.333	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 18:39:05

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	113.537
[ Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	104.387
[ Cd	111	
Sb	121	
Ba	135	
[> In-1	115	115.340
[ Pb	208	
[> Tm-1	169	110.019
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	104.387
[ Cd	108	
Cd	114	
[> In	115	115.340
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	110.019
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JJXAJC

Sample Description: G6K170000-133 LCS

Batch ID: 6321133

Sample Date/Time: Wednesday, November 22, 2006 18:41:56

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\JJXAJC.016

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 135

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			882311.552	ug/L	854235.854
[ 9 Be	169.504090	1.475	68183.973	ug/L	3.667
[ 27 Al	897.366511	1.423	6521946.649	ug/L	134965.982
[ 52 Cr	183.730250	1.290	2011687.624	ug/L	27671.053
[ 55 Mn	189.299933	2.174	3361001.634	ug/L	4526.170
[ 59 Co	181.078699	0.902	2329552.751	ug/L	116.334
[ 60 Ni	181.114871	0.549	505778.726	ug/L	218.354
[ 65 Cu	185.369838	1.128	521689.896	ug/L	330.637
[ 68 Zn	178.946526	0.482	204470.464	ug/L	2414.667
[ 75 As	172.485157	0.351	484467.072	ug/L	18867.308
> 72 Ge-1			1966429.128	ug/L	2104942.104
[ 111 Cd	176.444733	1.374	453993.738	ug/L	49.935
[ 121 Sb	43.185971	3.547	334279.680	ug/L	1405.114
[ 135 Ba	183.361722	1.960	438390.493	ug/L	299.672
> 115 In-1			1931505.061	ug/L	1982073.555
[ 208 Pb	186.825587	1.160	5163838.322	ug/L	1090.359
> 169 Tm-1			1376821.293	ug/L	1329102.281
[ 50 Cr	158.517534	4.454	43326.243	ug/L	-304.545
[ 53 Cr	152.680020	5.078	100515.591	ug/L	30306.384
[ 61 Ni	182.116594	0.815	10966.208	ug/L	2653.794
[ 63 Cu	182.600447	1.185	380340.115	ug/L	267.345
[ 67 Zn	170.797709	0.443	17127.140	ug/L	1492.357
[ 66 Zn	180.826200	0.204	96367.660	ug/L	592.390
> 72 Ge			1966429.128	ug/L	2104942.104
[ 108 Cd	173.786766	1.134	31536.305	ug/L	29.486
[ 114 Cd	174.792897	0.926	1019654.141	ug/L	141.940
> 115 In			1931505.061	ug/L	1982073.555
[ 208 207.977	189.085429	1.777	2632824.026	ug/L	558.351
[ 207 Pb	198.385838	1.237	1153340.602	ug/L	223.336
[ 206 Pb	174.338266	0.318	1377673.694	ug/L	308.672
> 169 Tm			1376821.293	ug/L	1329102.281
[ 106 Pd	175.912026	0.357	43041.603	ug/L	55.334
[ 83 Kr	0.448422	7950.601	474.680	ug/L	474.346
[ 182 W			104.335	ug/L	5.333

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	103.287
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	93.420
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	97.449
[ Pb	208	
[> Tm-1	169	103.590
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	93.420
[ Cd	108	
[ Cd	114	
[> In	115	97.449
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	103.590
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JJXAJL

Sample Description: G6K170000-133 LCSD

Batch ID: 6321133

Sample Date/Time: Wednesday, November 22, 2006 18:45:37

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\JJXAJL.017

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 136

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			876601.888	ug/L	854235.854
[ 9 Be	172.093034	2.608	68757.775	ug/L	3.667
[ 27 Al	894.858601	0.768	6568220.676	ug/L	134965.982
[ 52 Cr	182.791431	0.569	2021292.288	ug/L	27671.053
[ 55 Mn	191.974663	0.315	3442115.237	ug/L	4526.170
[ 59 Co	181.647368	0.626	2359900.994	ug/L	116.334
[ 60 Ni	182.226654	2.579	513870.467	ug/L	218.354
[ 65 Cu	185.311731	0.560	526673.638	ug/L	330.637
[ 68 Zn	179.595309	0.258	207226.152	ug/L	2414.667
[ 75 As	172.603212	0.311	489569.433	ug/L	18867.308
> 72 Ge-1			1985811.253	ug/L	2104942.104
[ 111 Cd	175.204086	0.451	459039.847	ug/L	49.935
[ 121 Sb	43.580386	2.062	343536.058	ug/L	1405.114
[ 135 Ba	182.129844	1.095	443376.822	ug/L	299.672
> 115 In-1			1966635.836	ug/L	1982073.555
[ 208 Pb	190.577424	1.773	5263133.275	ug/L	1090.359
> 169 Tm-1			1375800.776	ug/L	1329102.281
[ 50 Cr	160.176558	1.404	44212.785	ug/L	-304.545
[ 53 Cr	148.850838	0.286	99679.472	ug/L	30306.384
[ 61 Ni	175.284020	0.625	10752.802	ug/L	2653.794
[ 63 Cu	179.865661	1.125	378335.313	ug/L	267.345
[ 67 Zn	171.438882	0.994	17355.732	ug/L	1492.357
[ 66 Zn	180.702436	0.658	97250.047	ug/L	592.390
> 72 Ge			1985811.253	ug/L	2104942.104
[ 108 Cd	175.525222	0.871	32427.344	ug/L	29.486
[ 114 Cd	173.061417	0.797	1027917.642	ug/L	141.940
> 115 In			1966635.836	ug/L	1982073.555
[ 208 207.977	193.458206	2.309	2691393.546	ug/L	558.351
[ 207 Pb	201.481143	0.612	1170449.694	ug/L	223.336
[ 206 Pb	177.478974	1.871	1401290.035	ug/L	308.672
> 169 Tm			1375800.776	ug/L	1329102.281
[ 106 Pd	179.335117	0.623	43878.077	ug/L	55.334
[ 83 Kr	4.035901	1350.022	477.346	ug/L	474.346
[ 182 W			95.335	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 18:47:10

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	102.618
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	94.340
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	99.221
[ Pb	208	
[> Tm-1	169	103.514
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	94.340
[ Cd	108	
[ Cd	114	
[> In	115	99.221
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	103.514
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JJ71FC

Sample Description: G6K220000-120 LCS

Batch ID: 6326120

Sample Date/Time: Wednesday, November 22, 2006 18:49:19

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\JJ71FC.018

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 137

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			849343.102	ug/L	854235.854
[ 9 Be	174.541483	2.939	67559.483	ug/L	3.667
[ 27 Al	873.462954	3.833	6265605.551	ug/L	134965.982
[ 52 Cr	179.643610	2.962	1941256.078	ug/L	27671.053
[ 55 Mn	187.277421	3.197	3280641.408	ug/L	4526.170
[ 59 Co	180.724912	3.620	2293651.781	ug/L	116.334
[ 60 Ni	181.229673	3.530	499276.514	ug/L	218.354
[ 65 Cu	183.975352	2.318	510931.307	ug/L	330.637
[ 68 Zn	184.231113	3.271	207618.645	ug/L	2414.667
[ 75 As	177.847957	3.808	492242.316	ug/L	18867.308
> 72 Ge-1			1941388.114	ug/L	2104942.104
[ 111 Cd	176.378352	4.950	452678.703	ug/L	49.935
[ 121 Sb	43.916358	5.601	339070.083	ug/L	1405.114
[ 135 Ba	180.321512	5.595	429947.342	ug/L	299.672
> 115 In-1			1929077.420	ug/L	1982073.555
[ 208 Pb	188.415981	3.325	5095645.793	ug/L	1090.359
> 169 Tm-1			1348215.354	ug/L	1329102.281
[ 50 Cr	156.861791	4.088	42291.985	ug/L	-304.545
[ 53 Cr	146.050939	6.131	96054.394	ug/L	30306.384
[ 61 Ni	177.046020	3.538	10587.574	ug/L	2653.794
[ 63 Cu	179.521108	2.661	368960.099	ug/L	267.345
[ 67 Zn	174.979230	3.994	17275.621	ug/L	1492.357
[ 66 Zn	185.885655	3.711	97709.035	ug/L	592.390
> 72 Ge			1941388.114	ug/L	2104942.104
[ 108 Cd	174.351934	4.632	31556.636	ug/L	29.486
[ 114 Cd	175.619843	4.281	1022055.248	ug/L	141.940
> 115 In			1929077.420	ug/L	1982073.555
[ 208 207.977	191.100528	2.982	2603825.732	ug/L	558.351
[ 207 Pb	196.933857	3.361	1120242.268	ug/L	223.336
[ 206 Pb	177.418658	3.959	1371577.793	ug/L	308.672
> 169 Tm			1348215.354	ug/L	1329102.281
[ 106 Pd	174.012145	0.826	42577.344	ug/L	55.334
[ 83 Kr	32.735326	90.536	498.681	ug/L	474.346
[ 182 W			80.001	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 18:50:52

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	99.427
[ Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	92.230
[ Cd	111	
Sb	121	
Ba	135	
[> In-1	115	97.326
[ Pb	208	
[> Tm-1	169	101.438
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	92.230
[ Cd	108	
Cd	114	
[> In	115	97.326
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	101.438
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JJ71FL

Sample Description: G6K220000-120 LCSD

Batch ID: 6326120

Sample Date/Time: Wednesday, November 22, 2006 18:53:01

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\JJ71FL.019

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 138

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			870585.083	ug/L	854235.854
[ 9 Be	172.985732	1.235	68660.003	ug/L	3.667
[ 27 Al	866.959069	1.910	6351449.054	ug/L	134965.982
[ 52 Cr	179.106836	0.748	1976268.936	ug/L	27671.053
[ 55 Mn	184.120646	0.762	3293554.130	ug/L	4526.170
[ 59 Co	179.778829	1.223	2329902.923	ug/L	116.334
[ 60 Ni	178.444785	1.270	501999.412	ug/L	218.354
[ 65 Cu	180.788144	1.237	512574.115	ug/L	330.637
[ 68 Zn	180.549598	0.940	207805.681	ug/L	2414.667
[ 75 As	175.145030	0.837	495301.900	ug/L	18867.308
> 72 Ge-1			1981026.291	ug/L	2104942.104
[ 111 Cd	175.744950	0.820	461609.772	ug/L	49.935
[ 121 Sb	43.369318	2.665	342718.513	ug/L	1405.114
[ 135 Ba	178.715294	2.297	436133.093	ug/L	299.672
> 115 In-1			1971622.184	ug/L	1982073.555
[ 208 Pb	186.012228	0.057	5142163.715	ug/L	1090.359
> 169 Tm-1			1377004.944	ug/L	1329102.281
[ 50 Cr	154.573446	3.340	42557.781	ug/L	-304.545
[ 53 Cr	142.161466	1.352	96248.755	ug/L	30306.384
[ 61 Ni	168.882231	3.053	10425.365	ug/L	2653.794
[ 63 Cu	176.715586	0.464	370834.585	ug/L	267.345
[ 67 Zn	170.539038	0.986	17230.039	ug/L	1492.357
[ 66 Zn	182.281821	1.381	97860.219	ug/L	592.390
> 72 Ge			1981026.291	ug/L	2104942.104
[ 108 Cd	173.908821	1.201	32209.665	ug/L	29.486
[ 114 Cd	173.899879	0.364	1035575.939	ug/L	141.940
> 115 In			1971622.184	ug/L	1982073.555
[ 208 207.977	188.209835	0.323	2621063.886	ug/L	558.351
[ 207 Pb	194.577444	0.295	1131383.492	ug/L	223.336
[ 206 Pb	175.838112	0.442	1389716.337	ug/L	308.672
> 169 Tm			1377004.944	ug/L	1329102.281
[ 106 Pd	180.005505	0.268	44041.895	ug/L	55.334
[ 83 Kr	48.878819	62.782	510.682	ug/L	474.346
[ 182 W			81.001	ug/L	5.333

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	101.914
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	94.113
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	99.473
[ Pb	208	
[> Tm-1	169	103.604
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	94.113
[ Cd	108	
[ Cd	114	
[> In	115	99.473
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	103.604
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: Rinse

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:56:47

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\Rinse.020

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			851712.638	ug/L	854235.854
[ 9 Be	0.005229	79.698	5.667	ug/L	3.667
[ 27 Al	-10.188630	1.250	54342.230	ug/L	134965.982
[ 52 Cr	-0.372489	4.260	22183.084	ug/L	27671.053
[ 55 Mn	-0.138280	2.759	1805.186	ug/L	4526.170
[ 59 Co	0.005390	12.686	181.002	ug/L	116.334
[ 60 Ni	-0.032584	9.461	114.949	ug/L	218.354
[ 65 Cu	-0.038429	1.644	204.107	ug/L	330.637
[ 68 Zn	0.514807	14.277	2884.809	ug/L	2414.667
[ 75 As	-0.109066	84.988	17616.874	ug/L	18867.308
> 72 Ge-1			1998894.188	ug/L	2104942.104
[ 111 Cd	0.001478	438.726	52.855	ug/L	49.935
[ 121 Sb	0.396907	15.430	4466.149	ug/L	1405.114
[ 135 Ba	0.006632	75.436	310.339	ug/L	299.672
> 115 In-1			1947011.506	ug/L	1982073.555
[ 208 Pb	-0.000130	784.196	1123.361	ug/L	1090.359
> 169 Tm-1			1373967.532	ug/L	1329102.281
[ 50 Cr	0.419146	20.269	-172.062	ug/L	-304.545
[ 53 Cr	-12.761358	6.060	22643.419	ug/L	30306.384
[ 61 Ni	-1.770228	196.684	2434.950	ug/L	2653.794
[ 63 Cu	-0.032384	5.250	185.339	ug/L	267.345
[ 67 Zn	-1.810337	11.238	1247.582	ug/L	1492.357
[ 66 Zn	0.875731	3.975	1034.171	ug/L	592.390
> 72 Ge			1998894.188	ug/L	2104942.104
[ 108 Cd	-0.046518	216.456	20.497	ug/L	29.486
[ 114 Cd	-0.000642	105.839	135.655	ug/L	141.940
> 115 In			1947011.506	ug/L	1982073.555
[ 208 207.977	0.000377	260.684	582.353	ug/L	558.351
[ 207 Pb	0.002333	122.088	244.337	ug/L	223.336
[ 206 Pb	-0.002835	53.892	296.672	ug/L	308.672
> 169 Tm			1373967.532	ug/L	1329102.281
[ 106 Pd	-0.075026	53.721	37.000	ug/L	55.334
[ 83 Kr	9.865471	529.773	481.680	ug/L	474.346
[ 182 W			3.667	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 18:56:22

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Sample ID: Rinse

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	99.705
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	94.962
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	98.231
[ Pb	208	
[> Tm-1	169	103.376
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	94.962
[ Cd	108	
[ Cd	114	
[> In	115	98.231
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	103.376
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: JJXAJB**

Sample Description: G6K170000-133 BLK

Batch ID: 6321133

Sample Date/Time: Wednesday, November 22, 2006 19:00:32

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\JJXAJB.021

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 12

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			850991.127	ug/L	854235.854
[ 9 Be	-0.006837	0.623	1.000	ug/L	3.667
[ 27 Al	-12.722030	0.641	36043.757	ug/L	134965.982
[ 52 Cr	-0.318763	21.003	22804.693	ug/L	27671.053
[ 55 Mn	0.832982	3.863	19337.014	ug/L	4526.170
[ 59 Co	0.013819	25.832	291.338	ug/L	116.334
[ 60 Ni	0.265072	1.008	960.882	ug/L	218.354
[ 65 Cu	0.593738	8.350	2013.463	ug/L	330.637
[ 68 Zn	0.663149	4.456	3059.535	ug/L	2414.667
[ 75 As	0.155357	76.654	18368.732	ug/L	18867.308
> 72 Ge-1			2001844.771	ug/L	2104942.104
[ 111 Cd	-0.006203	62.949	34.091	ug/L	49.935
[ 121 Sb	0.056288	9.113	1876.868	ug/L	1405.114
[ 135 Ba	0.102455	4.383	558.685	ug/L	299.672
> 115 In-1			2010757.415	ug/L	1982073.555
[ 208 Pb	0.111204	4.485	4260.404	ug/L	1090.359
> 169 Tm-1			1396001.084	ug/L	1329102.281
[ 50 Cr	1.106004	3.222	20.212	ug/L	-304.545
[ 53 Cr	-40.334833	3.409	9400.492	ug/L	30306.384
[ 61 Ni	-1.046028	144.878	2473.646	ug/L	2653.794
[ 63 Cu	0.605757	4.701	1537.378	ug/L	267.345
[ 67 Zn	-6.528565	13.479	806.771	ug/L	1492.357
[ 66 Zn	0.941003	4.030	1070.850	ug/L	592.390
> 72 Ge			2001844.771	ug/L	2104942.104
[ 108 Cd	-0.142763	21.939	2.927	ug/L	29.486
[ 114 Cd	-0.005245	35.105	112.156	ug/L	141.940
> 115 In			2010757.415	ug/L	1982073.555
[ 208 207.977	0.116343	9.451	2227.951	ug/L	558.351
[ 207 Pb	0.109854	0.800	882.044	ug/L	223.336
[ 206 Pb	0.103142	2.467	1150.409	ug/L	308.672
> 169 Tm			1396001.084	ug/L	1329102.281
[ 106 Pd	-0.197794	5.474	7.000	ug/L	55.334
[ 83 Kr	8.071691	274.031	480.347	ug/L	474.346
[ 182 W			32.334	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 19:02:06

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	99.620
[ Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	95.102
[ Cd	111	
Sb	121	
Ba	135	
[> In-1	115	101.447
[ Pb	208	
[> Tm-1	169	105.033
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	95.102
[ Cd	108	
Cd	114	
[> In	115	101.447
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	105.033
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: MB CONTROL**

Sample Description:

Batch ID: 6321133

Sample Date/Time: Wednesday, November 22, 2006 19:04:22

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\MB CONTROL.022

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 13

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			931534.125	ug/L	854235.854
[ 9 Be	-0.007848	17.287	0.667	ug/L	3.667
[ 27 Al	-2.548456	7.752	116651.105	ug/L	134965.982
[ 52 Cr	1.786809	2.676	48816.799	ug/L	27671.053
[ 55 Mn	2.458571	1.673	51694.930	ug/L	4526.170
[ 59 Co	0.551537	0.958	7787.131	ug/L	116.334
[ 60 Ni	1.039002	1.970	3355.720	ug/L	218.354
[ 65 Cu	1.317024	1.835	4338.351	ug/L	330.637
[ 68 Zn	1.555385	2.354	4338.409	ug/L	2414.667
[ 75 As	-0.578686	6.821	17359.378	ug/L	18867.308
> 72 Ge-1			2125639.445	ug/L	2104942.104
[ 111 Cd	0.001528	270.837	60.292	ug/L	49.935
[ 121 Sb	-0.071288	6.133	938.384	ug/L	1405.114
[ 135 Ba	0.822295	2.462	2584.715	ug/L	299.672
> 115 In-1			2212227.343	ug/L	1982073.555
[ 208 Pb	0.230874	0.312	8194.150	ug/L	1090.359
> 169 Tm-1			1502306.390	ug/L	1329102.281
[ 50 Cr	2.247453	2.296	360.898	ug/L	-304.545
[ 53 Cr	-38.623065	4.077	10855.879	ug/L	30306.384
[ 61 Ni	7.157865	101.288	3039.491	ug/L	2653.794
[ 63 Cu	1.346000	1.324	3298.406	ug/L	267.345
[ 67 Zn	-6.311847	14.546	878.124	ug/L	1492.357
[ 66 Zn	1.976736	3.040	1730.479	ug/L	592.390
> 72 Ge			2125639.445	ug/L	2104942.104
[ 108 Cd	0.164261	34.246	66.954	ug/L	29.486
[ 114 Cd	-0.001476	153.972	148.465	ug/L	141.940
> 115 In			2212227.343	ug/L	1982073.555
[ 208 207.977	0.238495	0.666	4254.034	ug/L	558.351
[ 207 Pb	0.236783	0.517	1754.176	ug/L	223.336
[ 206 Pb	0.213098	1.997	2185.940	ug/L	308.672
> 169 Tm			1502306.390	ug/L	1329102.281
[ 106 Pd	0.335571	1.863	137.334	ug/L	55.334
[ 83 Kr	8.520107	39.736	480.680	ug/L	474.346
[ 182 W			101.002	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 19:05:55

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Sample ID: MB CONTROL

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	109.049
[ Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	100.983
[ Cd	111	
Sb	121	
Ba	135	
[> In-1	115	111.612
[ Pb	208	
[> Tm-1	169	113.032
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	100.983
[ Cd	108	
Cd	114	
[> In	115	111.612
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	113.032
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JJ71FB

Sample Description: G6K220000-120 BLK

Batch ID: 6326120

Sample Date/Time: Wednesday, November 22, 2006 19:07:31

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\JJ71FB.023

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 14

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			837197.701	ug/L	854235.854
[ 9 Be	-0.002387	278.006	2.667	ug/L	3.667
[ 27 Al	-13.077942	0.679	33898.210	ug/L	134965.982
[ 52 Cr	-0.759819	3.848	18187.551	ug/L	27671.053
[ 55 Mn	0.164178	4.157	7363.765	ug/L	4526.170
[ 59 Co	0.001733	67.842	135.001	ug/L	116.334
[ 60 Ni	0.079519	3.293	439.312	ug/L	218.354
[ 65 Cu	0.570103	2.655	1972.442	ug/L	330.637
[ 68 Zn	0.007211	369.291	2334.645	ug/L	2414.667
[ 75 As	-0.001983	1362.577	18171.228	ug/L	18867.308
> 72 Ge-1			2027932.766	ug/L	2104942.104
[ 111 Cd	0.002820	168.429	58.383	ug/L	49.935
[ 121 Sb	-0.109115	4.635	550.684	ug/L	1405.114
[ 135 Ba	0.481644	4.200	1505.463	ug/L	299.672
> 115 In-1			2015702.298	ug/L	1982073.555
[ 208 Pb	0.030921	7.948	2005.423	ug/L	1090.359
> 169 Tm-1			1391706.724	ug/L	1329102.281
[ 50 Cr	0.903124	8.214	-37.090	ug/L	-304.545
[ 53 Cr	-40.943616	4.668	9223.334	ug/L	30306.384
[ 61 Ni	-3.014516	50.682	2411.931	ug/L	2653.794
[ 63 Cu	0.566731	3.775	1474.348	ug/L	267.345
[ 67 Zn	-7.080676	9.180	764.761	ug/L	1492.357
[ 66 Zn	0.516401	13.584	853.117	ug/L	592.390
> 72 Ge			2027932.766	ug/L	2104942.104
[ 108 Cd	-0.125901	9.518	6.173	ug/L	29.486
[ 114 Cd	0.001257	229.828	152.002	ug/L	141.940
> 115 In			2015702.298	ug/L	1982073.555
[ 208 207.977	0.032719	13.397	1045.063	ug/L	558.351
[ 207 Pb	0.032028	17.985	422.010	ug/L	223.336
[ 206 Pb	0.026938	11.531	538.350	ug/L	308.672
> 169 Tm			1391706.724	ug/L	1329102.281
[ 106 Pd	-0.170513	7.332	13.667	ug/L	55.334
[ 83 Kr	35.874334	78.571	501.014	ug/L	474.346
[ 182 W			5.667	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 19:09:05

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	98.005
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	96.341
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	101.697
[ Pb	208	
[> Tm-1	169	104.710
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	96.341
[ Cd	108	
[ Cd	114	
[> In	115	101.697
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	104.710
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: MB CONTROL**

Sample Description:

Batch ID: 6326120

Sample Date/Time: Wednesday, November 22, 2006 19:11:21

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\MB CONTROL.024

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 15

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			905101.260	ug/L	854235.854
[ 9 Be	-0.007800	17.923	0.667	ug/L	3.667
[ 27 Al	-2.103759	5.620	121408.215	ug/L	134965.982
[ 52 Cr	0.910324	2.553	39006.433	ug/L	27671.053
[ 55 Mn	0.658095	0.723	17374.901	ug/L	4526.170
[ 59 Co	1.090973	1.328	15457.645	ug/L	116.334
[ 60 Ni	0.926670	1.538	3050.149	ug/L	218.354
[ 65 Cu	1.024148	1.286	3486.075	ug/L	330.637
[ 68 Zn	1.765477	2.082	4645.900	ug/L	2414.667
[ 75 As	-0.449073	6.805	17934.206	ug/L	18867.308
> 72 Ge-1			2149105.661	ug/L	2104942.104
[ 111 Cd	0.002626	220.725	63.129	ug/L	49.935
[ 121 Sb	-0.102392	1.751	661.025	ug/L	1405.114
[ 135 Ba	1.410695	2.651	4176.664	ug/L	299.672
> 115 In-1			2202648.701	ug/L	1982073.555
[ 208 Pb	0.105452	0.883	4398.093	ug/L	1090.359
> 169 Tm-1			1497506.442	ug/L	1329102.281
[ 50 Cr	1.775883	6.845	223.270	ug/L	-304.545
[ 53 Cr	-39.885161	3.944	10321.402	ug/L	30306.384
[ 61 Ni	4.213574	82.266	2923.370	ug/L	2653.794
[ 63 Cu	1.036120	2.742	2630.441	ug/L	267.345
[ 67 Zn	-5.769081	17.810	942.143	ug/L	1492.357
[ 66 Zn	2.230639	4.518	1896.909	ug/L	592.390
> 72 Ge			2149105.661	ug/L	2104942.104
[ 108 Cd	0.143038	27.067	62.288	ug/L	29.486
[ 114 Cd	0.001835	127.281	170.046	ug/L	141.940
> 115 In			2202648.701	ug/L	1982073.555
[ 208 207.977	0.108453	2.763	2271.295	ug/L	558.351
[ 207 Pb	0.108749	3.415	939.050	ug/L	223.336
[ 206 Pb	0.097737	3.614	1187.747	ug/L	308.672
> 169 Tm			1497506.442	ug/L	1329102.281
[ 106 Pd	0.300104	18.312	128.668	ug/L	55.334
[ 83 Kr	4.484264	566.307	477.680	ug/L	474.346
[ 182 W			85.335	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 19:12:55

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	105.954
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	102.098
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	111.129
[ Pb	208	
[> Tm-1	169	112.671
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	102.098
[ Cd	108	
[ Cd	114	
[> In	115	111.129
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	112.671
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 3

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 19:14:32

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCV 3.025

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			824887.057	ug/L	854235.854
[ 9 Be	100.166079	1.133	37673.937	ug/L	3.667
[ 27 Al	4926.834960	1.245	36581199.598	ug/L	134965.982
[ 52 Cr	97.007818	1.051	1115264.857	ug/L	27671.053
[ 55 Mn	97.014983	0.364	1790202.246	ug/L	4526.170
[ 59 Co	98.913158	0.634	1321002.893	ug/L	116.334
[ 60 Ni	97.137057	0.421	281685.369	ug/L	218.354
[ 65 Cu	99.507768	0.406	290854.078	ug/L	330.637
[ 68 Zn	98.318283	0.547	117670.982	ug/L	2414.667
[ 75 As	98.702006	0.459	295605.730	ug/L	18867.308
> 72 Ge-1			2041223.366	ug/L	2104942.104
[ 111 Cd	97.555245	0.615	259643.248	ug/L	49.935
[ 121 Sb	49.031784	0.213	392417.073	ug/L	1405.114
[ 135 Ba	98.026260	0.590	242538.368	ug/L	299.672
> 115 In-1			1997528.226	ug/L	1982073.555
[ 208 Pb	99.046043	0.497	2734452.081	ug/L	1090.359
> 169 Tm-1			1374973.191	ug/L	1329102.281
[ 50 Cr	90.878648	2.088	25659.018	ug/L	-304.545
[ 53 Cr	85.639295	0.383	71430.858	ug/L	30306.384
[ 61 Ni	95.755331	6.070	7205.975	ug/L	2653.794
[ 63 Cu	98.485498	0.888	213054.088	ug/L	267.345
[ 67 Zn	96.947914	1.265	10717.684	ug/L	1492.357
[ 66 Zn	100.659632	0.713	55937.873	ug/L	592.390
> 72 Ge			2041223.366	ug/L	2104942.104
[ 108 Cd	97.023806	0.955	18220.615	ug/L	29.486
[ 114 Cd	98.213858	0.875	592613.983	ug/L	141.940
> 115 In			1997528.226	ug/L	1982073.555
[ 208 207.977	98.643750	0.633	1371927.587	ug/L	558.351
[ 207 Pb	100.059670	0.545	581034.170	ug/L	223.336
[ 206 Pb	99.009169	0.856	781490.324	ug/L	308.672
> 169 Tm			1374973.191	ug/L	1329102.281
[ 106 Pd	99.481566	1.255	24364.879	ug/L	55.334
[ 83 Kr	60.986449	48.446	519.682	ug/L	474.346
[ 182 W			91.001	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 19:16:07

Page 1

Sample ID: CCV 3

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	96.564
[ Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	96.973
[ Cd	111	
Sb	121	
Ba	135	
[> In-1	115	100.780
[ Pb	208	
[> Tm-1	169	103.451
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	96.973
[ Cd	108	
Cd	114	
[> In	115	100.780
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	103.451
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 3

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 19:18:18

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCB 3.026

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			848724.080	ug/L	854235.854
[ 9 Be	-0.003377	45.402	2.333	ug/L	3.667
[ 27 Al	2.010379	38.136	145229.762	ug/L	134965.982
] 52 Cr	-0.380692	24.735	22477.842	ug/L	27671.053
] 55 Mn	-0.007157	128.995	4242.028	ug/L	4526.170
] 59 Co	0.002223	39.701	142.001	ug/L	116.334
] 60 Ni	-0.001760	158.685	205.922	ug/L	218.354
] 65 Cu	-0.029247	6.783	234.644	ug/L	330.637
] 68 Zn	-0.472711	9.472	1782.182	ug/L	2414.667
] 75 As	-0.145749	215.668	17819.079	ug/L	18867.308
> 72 Ge-1			2035287.590	ug/L	2104942.104
[ 111 Cd	-0.004631	63.232	37.822	ug/L	49.935
] 121 Sb	0.034402	83.489	1673.828	ug/L	1405.114
] 135 Ba	0.015815	36.640	338.340	ug/L	299.672
> 115 In-1			1982210.332	ug/L	1982073.555
[ 208 Pb	0.001256	268.844	1162.030	ug/L	1090.359
> 169 Tm-1			1374228.125	ug/L	1329102.281
] 50 Cr	0.503005	8.486	-151.454	ug/L	-304.545
] 53 Cr	-13.561818	18.161	22645.808	ug/L	30306.384
] 61 Ni	-3.565695	75.321	2393.585	ug/L	2653.794
] 63 Cu	-0.027720	38.542	198.673	ug/L	267.345
] 67 Zn	-1.436163	51.785	1304.939	ug/L	1492.357
] 66 Zn	0.069152	146.401	609.726	ug/L	592.390
> 72 Ge			2035287.590	ug/L	2104942.104
[ 108 Cd	0.062471	168.016	40.918	ug/L	29.486
] 114 Cd	0.005319	47.196	173.659	ug/L	141.940
> 115 In			1982210.332	ug/L	1982073.555
[ 208 207.977	0.001108	282.690	593.020	ug/L	558.351
] 207 Pb	0.001481	219.646	239.337	ug/L	223.336
] 206 Pb	0.001350	416.216	329.673	ug/L	308.672
> 169 Tm			1374228.125	ug/L	1329102.281
] 106 Pd	0.006821	572.363	57.000	ug/L	55.334
] 83 Kr	38.116479	63.169	502.681	ug/L	474.346
] 182 W			4.333	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 19:19:54

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Sample ID: CCB 3

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	99.355
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	96.691
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	100.007
[ Pb	208	
[> Tm-1	169	103.395
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	96.691
[ Cd	108	
[ Cd	114	
[> In	115	100.007
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	103.395
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 4

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 19:22:05

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCV 4.027

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			819710.942	ug/L	854235.854
[ 9 Be	100.772050	0.603	37662.887	ug/L	3.667
[ 27 Al	4770.887945	1.482	36701549.278	ug/L	134965.982
[ 52 Cr	94.807003	1.329	1129611.819	ug/L	27671.053
[ 55 Mn	95.990019	1.132	1834854.017	ug/L	4526.170
[ 59 Co	96.844086	1.088	1339713.233	ug/L	116.334
[ 60 Ni	97.151012	1.625	291806.957	ug/L	218.354
[ 65 Cu	98.166333	0.992	297225.896	ug/L	330.637
[ 68 Zn	96.867685	1.311	120125.301	ug/L	2414.667
[ 75 As	98.089553	1.430	304409.941	ug/L	18867.308
> 72 Ge-1			2114624.514	ug/L	2104942.104
[ 111 Cd	98.405991	0.762	261513.649	ug/L	49.935
[ 121 Sb	49.745585	1.112	397508.102	ug/L	1405.114
[ 135 Ba	98.592753	0.916	243583.037	ug/L	299.672
> 115 In-1			1994584.578	ug/L	1982073.555
[ 208 Pb	99.766723	0.833	2752322.277	ug/L	1090.359
> 169 Tm-1			1373939.975	ug/L	1329102.281
[ 50 Cr	96.129149	0.809	28135.353	ug/L	-304.545
[ 53 Cr	84.469299	2.367	73394.556	ug/L	30306.384
[ 61 Ni	96.338106	4.258	7492.976	ug/L	2653.794
[ 63 Cu	98.246159	1.793	220150.976	ug/L	267.345
[ 67 Zn	95.550539	2.277	10963.873	ug/L	1492.357
[ 66 Zn	100.136986	2.162	57643.853	ug/L	592.390
> 72 Ge			2114624.514	ug/L	2104942.104
[ 108 Cd	98.060355	1.293	18387.121	ug/L	29.486
[ 114 Cd	98.639906	0.685	594289.184	ug/L	141.940
> 115 In			1994584.578	ug/L	1982073.555
[ 208 207.977	99.495995	0.830	1382792.200	ug/L	558.351
[ 207 Pb	100.004880	0.779	580298.913	ug/L	223.336
[ 206 Pb	100.068554	1.668	789231.164	ug/L	308.672
> 169 Tm			1373939.975	ug/L	1329102.281
[ 106 Pd	101.247575	1.656	24796.425	ug/L	55.334
[ 83 Kr	91.479781	12.679	542.350	ug/L	474.346
[ 182 W			107.669	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 19:23:39

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Sample ID: CCV 4

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	95.958
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	100.460
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	100.631
[ Pb	208	
[> Tm-1	169	103.374
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	100.460
[ Cd	108	
[ Cd	114	
[> In	115	100.631
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	103.374
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 4

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 19:25:51

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCB 4.028

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			863759.227	ug/L	854235.854
[ 9 Be	0.005831	243.273	6.000	ug/L	3.667
[ 27 Al	2.174784	2.465	149170.457	ug/L	134965.982
52 Cr	-0.387351	11.427	22825.077	ug/L	27671.053
55 Mn	-0.010882	38.616	4251.700	ug/L	4526.170
59 Co	0.004780	34.881	179.335	ug/L	116.334
60 Ni	0.003292	64.961	224.589	ug/L	218.354
65 Cu	-0.037123	9.079	215.435	ug/L	330.637
68 Zn	-0.594645	13.202	1668.493	ug/L	2414.667
75 As	-0.093548	73.857	18303.288	ug/L	18867.308
> 72 Ge-1			2071784.825	ug/L	2104942.104
[ 111 Cd	-0.004001	117.228	39.746	ug/L	49.935
121 Sb	0.033612	60.633	1691.165	ug/L	1405.114
135 Ba	0.004662	60.585	314.672	ug/L	299.672
> 115 In-1			2004506.768	ug/L	1982073.555
[ 208 Pb	0.003184	22.914	1226.700	ug/L	1090.359
> 169 Tm-1			1387341.150	ug/L	1329102.281
[ 50 Cr	0.600861	19.278	-125.639	ug/L	-304.545
53 Cr	-14.230980	7.228	22739.132	ug/L	30306.384
61 Ni	-1.524998	58.716	2537.030	ug/L	2653.794
63 Cu	-0.027564	8.440	202.673	ug/L	267.345
67 Zn	-1.329560	56.468	1339.955	ug/L	1492.357
66 Zn	-0.051317	81.941	554.383	ug/L	592.390
> 72 Ge			2071784.825	ug/L	2104942.104
[ 108 Cd	0.041560	101.235	37.671	ug/L	29.486
114 Cd	0.001511	246.916	152.815	ug/L	141.940
> 115 In			2004506.768	ug/L	1982073.555
[ 208 207.977	0.003466	48.818	631.356	ug/L	558.351
207 Pb	0.003790	14.983	255.337	ug/L	223.336
206 Pb	0.002242	71.716	340.007	ug/L	308.672
> 169 Tm			1387341.150	ug/L	1329102.281
[ 106 Pd	0.019097	107.143	60.000	ug/L	55.334
83 Kr	35.874340	88.185	501.014	ug/L	474.346
182 W			4.000	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 19:27:26

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Sample ID: CCB 4

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	101.115
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	98.425
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	101.132
[ Pb	208	
[> Tm-1	169	104.382
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	98.425
[ Cd	108	
[ Cd	114	
[> In	115	101.132
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	104.382
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JHQ8V

Sample Description: G6K020146-1

Batch ID: 6321133

Sample Date/Time: Wednesday, November 22, 2006 19:29:36

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\JHQ8V.029

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 27

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			848437.069	ug/L	854235.854
[ 9 Be	-0.000807	172.477	3.333	ug/L	3.667
[ 27 Al	135.417508	1.403	1130673.711	ug/L	134965.982
[ 52 Cr	1.438675	2.048	42895.556	ug/L	27671.053
[ 55 Mn	7.441293	0.572	141107.397	ug/L	4526.170
[ 59 Co	0.392372	0.904	5342.631	ug/L	116.334
[ 60 Ni	0.849271	3.750	2667.601	ug/L	218.354
[ 65 Cu	9.879798	0.976	29112.645	ug/L	330.637
[ 68 Zn	3.049943	1.747	5908.328	ug/L	2414.667
[ 75 As	0.379929	30.646	19327.637	ug/L	18867.308
> 72 Ge-1			2037476.732	ug/L	2104942.104
[ 111 Cd	0.027954	31.492	128.365	ug/L	49.935
[ 121 Sb	-0.030217	17.666	1208.083	ug/L	1405.114
[ 135 Ba	2.652924	1.874	7051.173	ug/L	299.672
> 115 In-1			2054134.141	ug/L	1982073.555
[ 208 Pb	0.889567	0.770	26031.908	ug/L	1090.359
> 169 Tm-1			1393997.880	ug/L	1329102.281
[ 50 Cr	3.588084	9.453	727.876	ug/L	-304.545
[ 53 Cr	-38.131752	4.089	10651.186	ug/L	30306.384
[ 61 Ni	-0.625655	385.111	2538.365	ug/L	2653.794
[ 63 Cu	10.046606	4.076	21926.060	ug/L	267.345
[ 67 Zn	-3.878203	29.282	1074.519	ug/L	1492.357
[ 66 Zn	3.555363	1.883	2525.353	ug/L	592.390
> 72 Ge			2037476.732	ug/L	2104942.104
[ 108 Cd	0.091968	104.011	48.153	ug/L	29.486
[ 114 Cd	0.014207	45.960	234.967	ug/L	141.940
> 115 In			2054134.141	ug/L	1982073.555
> 208 207.977	0.911763	1.150	13437.312	ug/L	558.351
[ 207 Pb	0.903158	3.262	5548.426	ug/L	223.336
[ 206 Pb	0.840457	2.588	7046.170	ug/L	308.672
> 169 Tm			1393997.880	ug/L	1329102.281
[ 106 Pd	0.372402	8.882	146.335	ug/L	55.334
[ 83 Kr	27.354172	117.038	494.681	ug/L	474.346
[ 182 W			541.047	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 19:31:08

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	99.321
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	96.795
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	103.636
[ Pb	208	
[> Tm-1	169	104.883
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	96.795
[ Cd	108	
[ Cd	114	
[> In	115	103.636
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	104.883
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JHQ8VP5

Sample Description: G6K020146-1 5X

Batch ID: 6321133

Sample Date/Time: Wednesday, November 22, 2006 19:33:18

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\JHQ8VP5.030

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 28

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			832657.553	ug/L	854235.854
[ 9 Be	-0.006760	68.016	1.000	ug/L	3.667
[ 27 Al	19.791424	4.105	280240.860	ug/L	134965.982
[ 52 Cr	0.024686	87.965	27399.839	ug/L	27671.053
[ 55 Mn	1.579643	1.466	33822.584	ug/L	4526.170
[ 59 Co	0.080455	1.920	1199.749	ug/L	116.334
[ 60 Ni	0.113528	10.688	546.528	ug/L	218.354
[ 65 Cu	1.927668	0.643	6012.260	ug/L	330.637
[ 68 Zn	4.862294	2.025	8131.111	ug/L	2414.667
[ 75 As	0.024694	472.383	18560.840	ug/L	18867.308
> 72 Ge-1			2062950.383	ug/L	2104942.104
[ 111 Cd	0.004193	155.515	62.654	ug/L	49.935
[ 121 Sb	-0.112410	0.807	529.349	ug/L	1405.114
[ 135 Ba	0.600093	2.136	1817.855	ug/L	299.672
> 115 In-1			2034670.713	ug/L	1982073.555
[ 208 Pb	0.174115	1.352	6011.802	ug/L	1090.359
> 169 Tm-1			1393204.056	ug/L	1329102.281
[ 50 Cr	1.123094	1.848	25.652	ug/L	-304.545
[ 53 Cr	-17.043459	6.599	21244.661	ug/L	30306.384
[ 61 Ni	-3.095065	80.540	2449.962	ug/L	2653.794
[ 63 Cu	1.997856	0.463	4624.753	ug/L	267.345
[ 67 Zn	1.630726	19.352	1620.087	ug/L	1492.357
[ 66 Zn	5.680504	2.329	3738.235	ug/L	592.390
> 72 Ge			2062950.383	ug/L	2104942.104
[ 108 Cd	-0.076406	50.745	15.669	ug/L	29.486
[ 114 Cd	-0.001706	74.122	135.258	ug/L	141.940
> 115 In			2034670.713	ug/L	1982073.555
[ 208 207.977	0.181472	2.108	3141.564	ug/L	558.351
[ 207 Pb	0.179421	3.330	1289.428	ug/L	223.336
[ 206 Pb	0.157247	4.619	1580.810	ug/L	308.672
> 169 Tm			1393204.056	ug/L	1329102.281
[ 106 Pd	-0.064113	85.000	39.667	ug/L	55.334
[ 83 Kr	-23.766720	118.913	456.679	ug/L	474.346
[ 182 W			113.669	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 19:34:51

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	97.474
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	98.005
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	102.654
[ Pb	208	
[> Tm-1	169	104.823
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	98.005
[ Cd	108	
[ Cd	114	
[> In	115	102.654
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	104.823
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JHQ8VZ

Sample Description: G6K020146-1 PS

Batch ID: 6321133

Sample Date/Time: Wednesday, November 22, 2006 19:37:01

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\JHQ8VZ.031

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 29

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			834574.391	ug/L	854235.854
[ 9 Be	178.912809	3.392	68040.532	ug/L	3.667
[ 27 Al	1067.475878	4.014	7770242.343	ug/L	134965.982
[ 52 Cr	183.483373	3.769	2018467.387	ug/L	27671.053
[ 55 Mn	195.239266	4.895	3481874.107	ug/L	4526.170
[ 59 Co	187.388730	3.436	2422189.927	ug/L	116.334
[ 60 Ni	188.372272	3.792	528495.133	ug/L	218.354
[ 65 Cu	200.678027	4.156	567354.523	ug/L	330.637
[ 68 Zn	191.495401	3.257	219699.299	ug/L	2414.667
[ 75 As	181.048500	4.349	509971.578	ug/L	18867.308
> 72 Ge-1			1977227.741	ug/L	2104942.104
[ 111 Cd	181.808188	3.191	483520.392	ug/L	49.935
[ 121 Sb	44.157623	0.528	353501.436	ug/L	1405.114
[ 135 Ba	191.693566	2.423	473768.250	ug/L	299.672
> 115 In-1			1997355.535	ug/L	1982073.555
[ 208 Pb	188.676150	2.889	5210161.062	ug/L	1090.359
> 169 Tm-1			1376341.622	ug/L	1329102.281
[ 50 Cr	160.249435	7.058	43977.987	ug/L	-304.545
[ 53 Cr	152.106733	7.961	100674.303	ug/L	30306.384
[ 61 Ni	183.491579	5.684	11081.284	ug/L	2653.794
[ 63 Cu	196.526216	4.233	411206.020	ug/L	267.345
[ 67 Zn	182.423448	4.545	18281.320	ug/L	1492.357
[ 66 Zn	191.618233	2.715	102586.349	ug/L	592.390
> 72 Ge			1977227.741	ug/L	2104942.104
[ 108 Cd	179.358843	4.366	33630.288	ug/L	29.486
[ 114 Cd	177.672054	3.009	1071259.332	ug/L	141.940
> 115 In			1997355.535	ug/L	1982073.555
[ 208 207.977	192.268446	2.959	2674657.961	ug/L	558.351
[ 207 Pb	196.985783	2.995	1144122.382	ug/L	223.336
[ 206 Pb	176.232484	2.669	1391380.719	ug/L	308.672
> 169 Tm			1376341.622	ug/L	1329102.281
[ 106 Pd	186.409973	1.767	45606.905	ug/L	55.334
[ 83 Kr	50.224153	98.648	511.682	ug/L	474.346
[ 182 W			626.396	ug/L	5.333

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	97.698
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	93.933
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	100.771
[ Pb	208	
[> Tm-1	169	103.554
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	93.933
[ Cd	108	
[ Cd	114	
[> In	115	100.771
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	103.554
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: JHRAM**

Sample Description: G6K020151-1

Batch ID: 6321133

Sample Date/Time: Wednesday, November 22, 2006 19:55:40

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\JHRAM.036

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 34

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			805064.535	ug/L	854235.854
[ 9 Be	-0.005747	55.297	1.333	ug/L	3.667
[ 27 Al	109.930875	2.994	913667.814	ug/L	134965.982
[ 52 Cr	1.235502	3.566	39383.117	ug/L	27671.053
[ 55 Mn	6.440807	1.556	118970.702	ug/L	4526.170
[ 59 Co	0.636499	1.133	8333.967	ug/L	116.334
[ 60 Ni	0.659382	1.411	2053.948	ug/L	218.354
[ 65 Cu	10.414778	1.017	29734.896	ug/L	330.637
[ 68 Zn	3.237635	1.063	5941.350	ug/L	2414.667
[ 75 As	0.345435	55.183	18643.109	ug/L	18867.308
> 72 Ge-1			1975324.139	ug/L	2104942.104
[ 111 Cd	0.053887	5.095	195.438	ug/L	49.935
[ 121 Sb	-0.084407	0.971	749.699	ug/L	1405.114
[ 135 Ba	2.381515	3.523	6241.560	ug/L	299.672
> 115 In-1			2015497.168	ug/L	1982073.555
[ 208 Pb	1.758180	1.740	50358.595	ug/L	1090.359
> 169 Tm-1			1394818.643	ug/L	1329102.281
[ 50 Cr	3.283589	11.820	621.136	ug/L	-304.545
[ 53 Cr	-37.565609	5.220	10593.012	ug/L	30306.384
[ 61 Ni	0.541211	368.017	2515.346	ug/L	2653.794
[ 63 Cu	10.345913	1.461	21883.363	ug/L	267.345
[ 67 Zn	-3.295808	31.284	1095.526	ug/L	1492.357
[ 66 Zn	4.039672	2.723	2706.172	ug/L	592.390
> 72 Ge			1975324.139	ug/L	2104942.104
[ 108 Cd	0.111427	23.537	51.078	ug/L	29.486
[ 114 Cd	0.037866	23.372	375.212	ug/L	141.940
> 115 In			2015497.168	ug/L	1982073.555
[ 208 207.977	1.813204	1.600	26155.033	ug/L	558.351
[ 207 Pb	1.809192	1.862	10886.435	ug/L	223.336
[ 206 Pb	1.623691	2.239	13317.127	ug/L	308.672
> 169 Tm			1394818.643	ug/L	1329102.281
[ 106 Pd	0.379223	13.778	148.001	ug/L	55.334
[ 83 Kr	-22.421452	68.235	457.679	ug/L	474.346
[ 182 W			490.705	ug/L	5.333

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	94.244
[ Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	93.842
[ Cd	111	
Sb	121	
Ba	135	
[> In-1	115	101.686
[ Pb	208	
[> Tm-1	169	104.944
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	93.842
[ Cd	108	
Cd	114	
[> In	115	101.686
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	104.944
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JHRAX

Sample Description: G6K020151-2

Batch ID: 6321133

Sample Date/Time: Wednesday, November 22, 2006 19:59:25

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\JHRAX.037

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 35

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			792985.264	ug/L	854235.854
[ 9 Be	-0.002052	73.636	2.667	ug/L	3.667
[ 27 Al	121.657618	1.852	985761.035	ug/L	134965.982
[ 52 Cr	1.483224	2.254	41573.205	ug/L	27671.053
[ 55 Mn	8.141981	1.265	147507.322	ug/L	4526.170
[ 59 Co	1.580617	2.511	20288.163	ug/L	116.334
[ 60 Ni	0.743674	2.240	2263.035	ug/L	218.354
[ 65 Cu	9.978131	2.827	28160.328	ug/L	330.637
[ 68 Zn	3.988194	6.973	6710.241	ug/L	2414.667
[ 75 As	0.390584	31.058	18543.680	ug/L	18867.308
> 72 Ge-1			1951996.366	ug/L	2104942.104
[ 111 Cd	0.041765	10.471	161.150	ug/L	49.935
[ 121 Sb	-0.048044	12.583	1029.394	ug/L	1405.114
[ 135 Ba	3.115438	3.197	7974.966	ug/L	299.672
> 115 In-1			1992322.696	ug/L	1982073.555
[ 208 Pb	1.020066	2.345	29247.271	ug/L	1090.359
> 169 Tm-1			1373611.898	ug/L	1329102.281
[ 50 Cr	3.441254	3.917	657.403	ug/L	-304.545
[ 53 Cr	-36.727269	6.032	10871.357	ug/L	30306.384
[ 61 Ni	1.133366	43.085	2513.344	ug/L	2653.794
[ 63 Cu	10.107503	0.850	21131.541	ug/L	267.345
[ 67 Zn	-2.945253	28.964	1115.200	ug/L	1492.357
[ 66 Zn	4.635470	5.117	2986.427	ug/L	592.390
> 72 Ge			1951996.366	ug/L	2104942.104
[ 108 Cd	0.185137	24.910	64.114	ug/L	29.486
[ 114 Cd	0.031114	5.723	330.061	ug/L	141.940
> 115 In			1992322.696	ug/L	1982073.555
[ 208 207.977	1.055812	3.104	15240.268	ug/L	558.351
[ 207 Pb	1.037365	3.665	6245.229	ug/L	223.336
[ 206 Pb	0.944351	1.434	7761.774	ug/L	308.672
> 169 Tm			1373611.898	ug/L	1329102.281
[ 106 Pd	0.353304	4.385	141.668	ug/L	55.334
[ 83 Kr	7.174851	466.997	479.680	ug/L	474.346
[ 182 W			425.696	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 20:00:59

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	92.830
[ Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	92.734
[ Cd	111	
Sb	121	
Ba	135	
[> In-1	115	100.517
[ Pb	208	
[> Tm-1	169	103.349
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	92.734
[ Cd	108	
Cd	114	
[> In	115	100.517
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	103.349
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JHRA2

Sample Description: G6K020151-3

Batch ID: 6321133

Sample Date/Time: Wednesday, November 22, 2006 20:03:09

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\JHRA2.038

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 36

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			791523.613	ug/L	854235.854
[ 9 Be	0.001683	288.257	4.000	ug/L	3.667
[ 27 Al	248.943530	1.951	1898683.652	ug/L	134965.982
52 Cr	1.388118	5.232	40816.651	ug/L	27671.053
55 Mn	11.302939	2.784	204463.643	ug/L	4526.170
59 Co	0.383606	4.910	5037.784	ug/L	116.334
60 Ni	0.666238	3.148	2061.728	ug/L	218.354
65 Cu	20.079643	0.719	56740.522	ug/L	330.637
68 Zn	6.124663	2.057	9168.801	ug/L	2414.667
75 As	0.520987	18.836	19019.372	ug/L	18867.308
> 72 Ge-1			1964923.552	ug/L	2104942.104
[ 111 Cd	0.154789	11.262	466.168	ug/L	49.935
121 Sb	-0.043601	4.179	1078.066	ug/L	1405.114
135 Ba	5.255740	1.123	13409.268	ug/L	299.672
> 115 In-1			2015596.683	ug/L	1982073.555
[ 208 Pb	1.498193	0.961	42831.935	ug/L	1090.359
> 169 Tm-1			1386625.883	ug/L	1329102.281
[ 50 Cr	3.701429	4.877	733.603	ug/L	-304.545
53 Cr	-37.250687	5.696	10680.304	ug/L	30306.384
61 Ni	1.397690	85.028	2542.701	ug/L	2653.794
63 Cu	20.222052	1.194	42306.786	ug/L	267.345
67 Zn	-0.574935	130.482	1339.621	ug/L	1492.357
66 Zn	7.042779	0.928	4281.598	ug/L	592.390
> 72 Ge			1964923.552	ug/L	2104942.104
[ 108 Cd	0.164750	67.581	61.155	ug/L	29.486
114 Cd	0.134908	6.908	965.418	ug/L	141.940
> 115 In			2015596.683	ug/L	1982073.555
[ 208 207.977	1.532820	1.617	22071.804	ug/L	558.351
207 Pb	1.533934	1.989	9212.181	ug/L	223.336
206 Pb	1.410882	0.789	11547.949	ug/L	308.672
> 169 Tm			1386625.883	ug/L	1329102.281
[ 106 Pd	0.549738	4.362	189.669	ug/L	55.334
83 Kr	-29.147811	163.981	452.678	ug/L	474.346
182 W			564.051	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 20:04:44

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Sample ID: JHRA2

## Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
[>	Li-1	6	92.659
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
[>	Ge-1	72	93.348
	Cd	111	
	Sb	121	
	Ba	135	
[>	In-1	115	101.691
	Pb	208	
[>	Tm-1	169	104.328
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
[>	Ge	72	93.348
	Cd	108	
	Cd	114	
[>	In	115	101.691
	207.977	208	
	Pb	207	
	Pb	206	
[>	Tm	169	104.328
	Pd	106	
	Kr	83	
	W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 5

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 20:06:55

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCV 5.039

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			802584.822	ug/L	854235.854
[ 9 Be	100.468120	2.021	36758.719	ug/L	3.667
[ 27 Al	4990.242150	1.640	36378773.987	ug/L	134965.982
[ 52 Cr	96.970133	0.287	1094603.526	ug/L	27671.053
[ 55 Mn	97.003826	0.473	1757564.005	ug/L	4526.170
[ 59 Co	97.853637	0.931	1283153.801	ug/L	116.334
[ 60 Ni	96.576280	0.614	274984.774	ug/L	218.354
[ 65 Cu	99.033869	1.235	284217.538	ug/L	330.637
[ 68 Zn	98.043211	0.969	115220.004	ug/L	2414.667
[ 75 As	98.932001	0.516	290877.930	ug/L	18867.308
> 72 Ge-1			2004241.578	ug/L	2104942.104
[ 111 Cd	97.911312	0.626	259274.559	ug/L	49.935
[ 121 Sb	49.139810	1.657	391266.296	ug/L	1405.114
[ 135 Ba	98.773651	1.210	243137.769	ug/L	299.672
> 115 In-1			1987544.637	ug/L	1982073.555
[ 208 Pb	97.517609	0.362	2695640.328	ug/L	1090.359
> 169 Tm-1			1376660.509	ug/L	1329102.281
[ 50 Cr	91.457996	7.091	25356.542	ug/L	-304.545
[ 53 Cr	87.266043	1.958	70918.727	ug/L	30306.384
[ 61 Ni	97.651370	0.553	7165.205	ug/L	2653.794
[ 63 Cu	98.118874	0.720	208423.822	ug/L	267.345
[ 67 Zn	96.921671	0.783	10520.681	ug/L	1492.357
[ 66 Zn	100.903157	1.780	55055.819	ug/L	592.390
> 72 Ge			2004241.578	ug/L	2104942.104
[ 108 Cd	97.835262	2.176	18277.742	ug/L	29.486
[ 114 Cd	97.706695	0.962	586558.333	ug/L	141.940
> 115 In			1987544.637	ug/L	1982073.555
[ 208 207.977	97.100951	0.499	1352181.572	ug/L	558.351
[ 207 Pb	98.337792	0.775	571750.130	ug/L	223.336
[ 206 Pb	97.648371	0.858	771708.625	ug/L	308.672
> 169 Tm			1376660.509	ug/L	1329102.281
[ 106 Pd	99.326982	0.427	24327.104	ug/L	55.334
[ 83 Kr	54.259988	57.097	514.682	ug/L	474.346
[ 182 W			99.002	ug/L	5.333

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	93.954
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	95.216
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	100.276
[ Pb	208	
[> Tm-1	169	103.578
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	95.216
[ Cd	108	
[ Cd	114	
[> In	115	100.276
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	103.578
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 5

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 20:10:42

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCB 5.040

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			808611.784	ug/L	854235.854
[ 9 Be	-0.002198	139.071	2.667	ug/L	3.667
[ 27 Al	2.943549	5.566	151276.203	ug/L	134965.982
[ 52 Cr	-0.118900	91.689	25270.499	ug/L	27671.053
[ 55 Mn	-0.005004	236.881	4257.037	ug/L	4526.170
[ 59 Co	0.007075	15.071	205.336	ug/L	116.334
[ 60 Ni	0.002563	141.277	217.261	ug/L	218.354
[ 65 Cu	-0.032450	6.745	223.918	ug/L	330.637
[ 68 Zn	-0.574248	2.752	1652.823	ug/L	2414.667
[ 75 As	-0.179904	14.687	17630.617	ug/L	18867.308
> 72 Ge-1			2022888.221	ug/L	2104942.104
[ 111 Cd	-0.003780	172.916	40.886	ug/L	49.935
[ 121 Sb	0.027995	62.002	1665.493	ug/L	1405.114
[ 135 Ba	0.023024	46.387	364.674	ug/L	299.672
> 115 In-1			2027930.620	ug/L	1982073.555
[ 208 Pb	0.006098	16.478	1301.704	ug/L	1090.359
> 169 Tm-1			1380665.741	ug/L	1329102.281
[ 50 Cr	0.722710	11.916	-88.291	ug/L	-304.545
[ 53 Cr	-9.323903	24.256	24583.754	ug/L	30306.384
[ 61 Ni	-0.518591	490.760	2525.689	ug/L	2653.794
[ 63 Cu	-0.034501	41.093	183.339	ug/L	267.345
[ 67 Zn	-0.674712	166.396	1369.968	ug/L	1492.357
[ 66 Zn	0.141373	49.711	646.067	ug/L	592.390
> 72 Ge			2022888.221	ug/L	2104942.104
[ 108 Cd	0.025952	56.587	35.091	ug/L	29.486
[ 114 Cd	0.000317	1534.427	146.771	ug/L	141.940
> 115 In			2027930.620	ug/L	1982073.555
[ 208 207.977	0.007017	13.094	678.026	ug/L	558.351
[ 207 Pb	0.007946	10.384	278.338	ug/L	223.336
[ 206 Pb	0.003120	76.202	345.340	ug/L	308.672
> 169 Tm			1380665.741	ug/L	1329102.281
[ 106 Pd	-0.015005	166.639	51.667	ug/L	55.334
[ 83 Kr	11.210735	389.646	482.680	ug/L	474.346
[ 182 W			10.667	ug/L	5.333

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G6K020151 Sample ID: CCB 5

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
> Li-1	6	94.659
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
> Ge-1	72	96.102
[ Cd	111	
[ Sb	121	
[ Ba	135	
> In-1	115	102.314
[ Pb	208	
> Tm-1	169	103.880
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
> Ge	72	96.102
[ Cd	108	
[ Cd	114	
> In	115	102.314
[ 207.977	208	
[ Pb	207	
[ Pb	206	
> Tm	169	103.880
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 6

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 20:14:28

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCV 6.041

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			795390.914	ug/L	854235.854
[ 9 Be	101.420362	1.226	36776.797	ug/L	3.667
[ 27 Al	5021.383411	0.670	37490413.789	ug/L	134965.982
[ 52 Cr	96.003601	0.187	1110150.823	ug/L	27671.053
[ 55 Mn	95.749614	1.080	1776819.676	ug/L	4526.170
[ 59 Co	98.326988	0.272	1320509.278	ug/L	116.334
[ 60 Ni	96.374952	0.987	281037.766	ug/L	218.354
[ 65 Cu	98.983821	0.463	290944.667	ug/L	330.637
[ 68 Zn	96.891358	1.003	116648.109	ug/L	2414.667
[ 75 As	98.398086	0.497	296400.280	ug/L	18867.308
> 72 Ge-1			2052670.934	ug/L	2104942.104
[ 111 Cd	97.844895	1.761	263317.450	ug/L	49.935
[ 121 Sb	49.288464	1.506	398875.668	ug/L	1405.114
[ 135 Ba	98.678253	1.955	246867.985	ug/L	299.672
> 115 In-1			2020092.629	ug/L	1982073.555
[ 208 Pb	96.051937	0.476	2672066.075	ug/L	1090.359
> 169 Tm-1			1385439.525	ug/L	1329102.281
[ 50 Cr	91.007672	2.715	25838.019	ug/L	-304.545
[ 53 Cr	89.485237	1.037	73729.308	ug/L	30306.384
[ 61 Ni	97.739544	2.731	7342.618	ug/L	2653.794
[ 63 Cu	98.555070	0.493	214407.116	ug/L	267.345
[ 67 Zn	97.539145	2.181	10834.085	ug/L	1492.357
[ 66 Zn	99.764085	0.682	55757.708	ug/L	592.390
> 72 Ge			2052670.934	ug/L	2104942.104
[ 108 Cd	99.379799	0.363	18872.555	ug/L	29.486
[ 114 Cd	97.478905	1.720	594726.420	ug/L	141.940
> 115 In			2020092.629	ug/L	1982073.555
[ 208 207.977	95.747442	0.604	1341872.437	ug/L	558.351
[ 207 Pb	96.745062	0.697	566081.363	ug/L	223.336
[ 206 Pb	96.078537	0.891	764112.275	ug/L	308.672
> 169 Tm			1385439.525	ug/L	1329102.281
[ 106 Pd	101.284500	1.296	24805.448	ug/L	55.334
[ 83 Kr	115.246721	17.275	560.018	ug/L	474.346
[ 182 W			86.668	ug/L	5.333

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	93.111
[ Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	97.517
[ Cd	111	
Sb	121	
Ba	135	
[> In-1	115	101.918
[ Pb	208	
[> Tm-1	169	104.239
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	97.517
[ Cd	108	
Cd	114	
[> In	115	101.918
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	104.239
Pd	106	
Kr	83	
W	182	

BJones

Sample ID: CCB 6

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 20:18:14

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCB 6.042

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			772773.501	ug/L	854235.854
[ 9 Be	0.007618	37.643	6.000	ug/L	3.667
[ 27 Al	3.234225	17.477	153955.960	ug/L	134965.982
52 Cr	0.106954	107.501	27875.037	ug/L	27671.053
55 Mn	-0.000695	818.271	4352.416	ug/L	4526.170
59 Co	0.008522	12.001	225.336	ug/L	116.334
60 Ni	0.003915	96.152	221.831	ug/L	218.354
65 Cu	-0.026580	6.266	241.757	ug/L	330.637
68 Zn	-0.506295	14.908	1738.506	ug/L	2414.667
75 As	0.200801	77.493	18755.836	ug/L	18867.308
> 72 Ge-1			2030346.878	ug/L	2104942.104
[ 111 Cd	0.002693	305.474	58.477	ug/L	49.935
121 Sb	0.036455	69.646	1725.171	ug/L	1405.114
135 Ba	0.013359	48.778	339.007	ug/L	299.672
> 115 In-1			2022177.653	ug/L	1982073.555
[ 208 Pb	0.008494	31.224	1349.040	ug/L	1090.359
> 169 Tm-1			1362017.491	ug/L	1329102.281
[ 50 Cr	0.806596	5.298	-64.654	ug/L	-304.545
53 Cr	-6.367713	40.777	26114.099	ug/L	30306.384
61 Ni	1.896558	80.001	2651.459	ug/L	2653.794
63 Cu	-0.029213	23.900	195.006	ug/L	267.345
67 Zn	0.968796	75.760	1531.376	ug/L	1492.357
66 Zn	0.137672	14.361	646.734	ug/L	592.390
> 72 Ge			2030346.878	ug/L	2104942.104
[ 108 Cd	0.057050	11.766	40.904	ug/L	29.486
114 Cd	0.003609	39.514	166.737	ug/L	141.940
> 115 In			2022177.653	ug/L	1982073.555
[ 208 207.977	0.008337	44.467	686.694	ug/L	558.351
207 Pb	0.009966	38.598	286.005	ug/L	223.336
206 Pb	0.007686	26.042	376.341	ug/L	308.672
> 169 Tm			1362017.491	ug/L	1329102.281
106 Pd	0.004092	642.910	56.334	ug/L	55.334
83 Kr	23.318314	158.453	491.681	ug/L	474.346
182 W			9.000	ug/L	5.333

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	90.464
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	96.456
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	102.023
[ Pb	208	
[> Tm-1	169	102.476
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	96.456
[ Cd	108	
[ Cd	114	
[> In	115	102.023
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	102.476
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JHRA4

Sample Description: G6K020151-4

Batch ID: 6321133

Sample Date/Time: Wednesday, November 22, 2006 20:22:01

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\JHRA4.043

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 37

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			801453.776	ug/L	854235.854
[ 9 Be	0.015251	65.358	9.000	ug/L	3.667
[ 27 Al	391.634785	1.401	2999598.830	ug/L	134965.982
[ 52 Cr	1.361529	4.636	41707.838	ug/L	27671.053
[ 55 Mn	16.541129	1.063	305938.254	ug/L	4526.170
[ 59 Co	0.659331	1.486	8832.456	ug/L	116.334
[ 60 Ni	0.843612	2.195	2630.925	ug/L	218.354
[ 65 Cu	40.640961	0.600	117852.183	ug/L	330.637
[ 68 Zn	6.829960	3.468	10255.009	ug/L	2414.667
[ 75 As	0.725473	25.870	20139.934	ug/L	18867.308
> 72 Ge-1			2021953.726	ug/L	2104942.104
[ 111 Cd	0.136939	4.518	431.427	ug/L	49.935
[ 121 Sb	0.016536	22.240	1610.148	ug/L	1405.114
[ 135 Ba	6.779191	0.043	17738.963	ug/L	299.672
> 115 In-1			2077749.837	ug/L	1982073.555
[ 208 Pb	1.523902	0.951	43994.309	ug/L	1090.359
> 169 Tm-1			1400886.943	ug/L	1329102.281
[ 50 Cr	5.360053	10.014	1223.786	ug/L	-304.545
[ 53 Cr	-37.182697	5.403	11025.499	ug/L	30306.384
[ 61 Ni	0.350525	727.032	2565.387	ug/L	2653.794
[ 63 Cu	40.370062	1.019	86661.300	ug/L	267.345
[ 67 Zn	-0.039247	1085.196	1429.660	ug/L	1492.357
[ 66 Zn	7.503522	2.046	4656.801	ug/L	592.390
> 72 Ge			2021953.726	ug/L	2104942.104
[ 108 Cd	0.169722	49.924	64.057	ug/L	29.486
[ 114 Cd	0.113095	6.266	858.294	ug/L	141.940
> 115 In			2077749.837	ug/L	1982073.555
[ 208 207.977	1.565181	0.661	22757.891	ug/L	558.351
[ 207 Pb	1.528321	1.781	9272.911	ug/L	223.336
[ 206 Pb	1.447914	1.235	11963.507	ug/L	308.672
> 169 Tm			1400886.943	ug/L	1329102.281
[ 106 Pd	0.620672	13.956	207.002	ug/L	55.334
[ 83 Kr	-14.798157	201.714	463.346	ug/L	474.346
[ 182 W			457.367	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 20:23:35

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	93.821
[ Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	96.057
[ Cd	111	
Sb	121	
Ba	135	
[> In-1	115	104.827
[ Pb	208	
[> Tm-1	169	105.401
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	96.057
[ Cd	108	
Cd	114	
[> In	115	104.827
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	105.401
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

## Sample ID: CCV 7

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 20:59:51

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCV 7.053

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			759492.694	ug/L	854235.854
[ 9 Be	103.442415	2.589	35800.767	ug/L	3.667
[ 27 Al	5149.770654	0.665	37429175.789	ug/L	134965.982
[ 52 Cr	97.237337	0.810	1094340.487	ug/L	27671.053
[ 55 Mn	95.868119	0.854	1731957.284	ug/L	4526.170
[ 59 Co	98.562004	0.693	1288747.012	ug/L	116.334
[ 60 Ni	97.417505	1.183	276557.925	ug/L	218.354
[ 65 Cu	99.324901	1.861	284207.659	ug/L	330.637
[ 68 Zn	96.991543	0.966	113676.666	ug/L	2414.667
[ 75 As	98.639275	0.242	289232.208	ug/L	18867.308
> 72 Ge-1			1998461.551	ug/L	2104942.104
[ 111 Cd	97.858843	1.622	259733.368	ug/L	49.935
[ 121 Sb	49.137476	0.265	392199.890	ug/L	1405.114
[ 135 Ba	98.933593	1.070	244109.673	ug/L	299.672
> 115 In-1			1992179.556	ug/L	1982073.555
[ 208 Pb	96.163165	2.450	2634751.038	ug/L	1090.359
> 169 Tm-1			1364878.621	ug/L	1329102.281
[ 50 Cr	93.402609	3.673	25830.597	ug/L	-304.545
[ 53 Cr	92.802057	2.578	73370.704	ug/L	30306.384
[ 61 Ni	94.405996	6.003	6992.158	ug/L	2653.794
[ 63 Cu	98.244980	0.247	208091.208	ug/L	267.345
[ 67 Zn	98.698633	2.618	10656.143	ug/L	1492.357
[ 66 Zn	99.657629	0.940	54225.419	ug/L	592.390
> 72 Ge			1998461.551	ug/L	2104942.104
[ 108 Cd	98.102091	1.388	18372.035	ug/L	29.486
[ 114 Cd	97.856774	0.855	588842.990	ug/L	141.940
> 115 In			1992179.556	ug/L	1982073.555
[ 208 207.977	95.534382	3.206	1318528.299	ug/L	558.351
[ 207 Pb	96.941516	2.223	558685.384	ug/L	223.336
[ 206 Pb	96.698493	1.309	757537.355	ug/L	308.672
> 169 Tm			1364878.621	ug/L	1329102.281
[ 106 Pd	99.794811	1.036	24441.424	ug/L	55.334
[ 83 Kr	12.107626	455.599	483.347	ug/L	474.346
[ 182 W			108.002	ug/L	5.333

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
> Li-1	6	88.909
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
> Ge-1	72	94.941
[ Cd	111	
[ Sb	121	
[ Ba	135	
> In-1	115	100.510
[ Pb	208	
> Tm-1	169	102.692
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
> Ge	72	94.941
[ Cd	108	
[ Cd	114	
> In	115	100.510
[ 207.977	208	
[ Pb	207	
[ Pb	206	
> Tm	169	102.692
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCB 7**

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 21:03:38

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCB 7.054

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			765681.412	ug/L	854235.854
[ 9 Be	0.017248	48.665	9.333	ug/L	3.667
[ 27 Al	3.663506	2.850	156925.783	ug/L	134965.982
[ 52 Cr	0.187140	43.272	28741.838	ug/L	27671.053
[ 55 Mn	-0.011749	20.372	4144.648	ug/L	4526.170
[ 59 Co	0.011278	13.293	261.671	ug/L	116.334
[ 60 Ni	0.006594	55.237	229.240	ug/L	218.354
[ 65 Cu	-0.022579	6.221	252.978	ug/L	330.637
[ 68 Zn	-0.592119	13.861	1635.486	ug/L	2414.667
[ 75 As	0.067743	73.348	18362.457	ug/L	18867.308
> 72 Ge-1			2027534.740	ug/L	2104942.104
[ 111 Cd	0.003785	140.729	61.836	ug/L	49.935
[ 121 Sb	0.030723	70.214	1698.166	ug/L	1405.114
[ 135 Ba	0.023660	36.656	369.008	ug/L	299.672
> 115 In-1			2043661.142	ug/L	1982073.555
[ 208 Pb	0.006548	45.562	1315.038	ug/L	1090.359
> 169 Tm-1			1381020.338	ug/L	1329102.281
[ 50 Cr	0.729317	2.725	-86.499	ug/L	-304.545
[ 53 Cr	-5.226721	26.706	26644.167	ug/L	30306.384
[ 61 Ni	1.179647	252.685	2612.093	ug/L	2653.794
[ 63 Cu	-0.030846	8.325	191.339	ug/L	267.345
[ 67 Zn	0.481138	79.167	1483.352	ug/L	1492.357
[ 66 Zn	0.100037	67.906	625.063	ug/L	592.390
> 72 Ge			2027534.740	ug/L	2104942.104
[ 108 Cd	0.080038	59.684	45.660	ug/L	29.486
[ 114 Cd	0.008682	34.509	199.748	ug/L	141.940
> 115 In			2043661.142	ug/L	1982073.555
[ 208 207.977	0.006574	51.140	672.359	ug/L	558.351
[ 207 Pb	0.009239	17.299	286.005	ug/L	223.336
[ 206 Pb	0.004523	87.698	356.674	ug/L	308.672
> 169 Tm			1381020.338	ug/L	1329102.281
[ 106 Pd	0.038195	40.564	64.667	ug/L	55.334
[ 83 Kr	-16.591879	142.527	462.012	ug/L	474.346
[ 182 W			9.667	ug/L	5.333

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G6K020151 Sample ID: CCB 7

STL Sacramento (916) 373 - 5600

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	89.633
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	96.323
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	103.107
[ Pb	208	
[> Tm-1	169	103.906
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	96.323
[ Cd	108	
[ Cd	114	
[> In	115	103.107
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	103.906
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 8

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 21:07:24

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCV 8.055

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			747876.517	ug/L	854235.854
[ 9 Be	103.594366	1.706	35314.460	ug/L	3.667
[ 27 Al	5173.117184	0.583	38123631.718	ug/L	134965.982
[ 52 Cr	95.258615	0.328	1087622.390	ug/L	27671.053
[ 55 Mn	94.572291	1.341	1732435.233	ug/L	4526.170
[ 59 Co	97.566596	2.845	1293303.945	ug/L	116.334
[ 60 Ni	96.752551	1.204	278514.943	ug/L	218.354
[ 65 Cu	98.343563	1.576	285353.782	ug/L	330.637
[ 68 Zn	96.335526	0.591	114504.717	ug/L	2414.667
[ 75 As	98.799592	1.458	293700.972	ug/L	18867.308
> 72 Ge-1			2026383.926	ug/L	2104942.104
[ 111 Cd	96.632638	1.604	260763.374	ug/L	49.935
[ 121 Sb	48.688403	2.364	395067.597	ug/L	1405.114
[ 135 Ba	99.378028	0.487	249323.482	ug/L	299.672
> 115 In-1			2025642.213	ug/L	1982073.555
[ 208 Pb	96.005319	1.567	2642090.099	ug/L	1090.359
> 169 Tm-1			1370693.504	ug/L	1329102.281
[ 50 Cr	92.394381	6.026	25908.382	ug/L	-304.545
[ 53 Cr	93.379345	1.804	74685.082	ug/L	30306.384
[ 61 Ni	97.517536	2.973	7238.377	ug/L	2653.794
[ 63 Cu	97.991704	1.675	210443.317	ug/L	267.345
[ 67 Zn	98.740922	0.457	10809.665	ug/L	1492.357
[ 66 Zn	99.060457	0.653	54658.205	ug/L	592.390
> 72 Ge			2026383.926	ug/L	2104942.104
[ 108 Cd	96.119508	1.886	18301.445	ug/L	29.486
[ 114 Cd	97.176605	1.465	594523.212	ug/L	141.940
> 115 In			2025642.213	ug/L	1982073.555
[ 208 207.977	95.912290	1.541	1329753.267	ug/L	558.351
[ 207 Pb	95.874482	1.506	554949.022	ug/L	223.336
[ 206 Pb	96.265508	1.922	757387.810	ug/L	308.672
> 169 Tm			1370693.504	ug/L	1329102.281
[ 106 Pd	100.812541	0.428	24690.119	ug/L	55.334
[ 83 Kr	64.573879	20.554	522.349	ug/L	474.346
[ 182 W			104.002	ug/L	5.333

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	87.549
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	96.268
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	102.198
[ Pb	208	
[> Tm-1	169	103.129
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	96.268
[ Cd	108	
[ Cd	114	
[> In	115	102.198
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	103.129
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 8

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 21:11:10

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCB 8.056

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			746988.425	ug/L	854235.854
[ 9 Be	0.013099	56.632	7.667	ug/L	3.667
[ 27 Al	4.122785	11.636	160293.444	ug/L	134965.982
52 Cr	0.362562	25.348	30691.425	ug/L	27671.053
55 Mn	-0.006284	133.237	4244.363	ug/L	4526.170
59 Co	0.011869	23.777	269.338	ug/L	116.334
60 Ni	0.015408	45.300	254.680	ug/L	218.354
65 Cu	-0.027366	17.492	239.194	ug/L	330.637
68 Zn	-0.434450	11.013	1819.523	ug/L	2414.667
75 As	0.208874	94.107	18754.909	ug/L	18867.308
> 72 Ge-1			2027655.878	ug/L	2104942.104
[ 111 Cd	0.002317	266.426	57.712	ug/L	49.935
121 Sb	0.037937	79.686	1757.512	ug/L	1405.114
135 Ba	0.028292	26.866	380.675	ug/L	299.672
> 115 In-1			2044590.526	ug/L	1982073.555
[ 208 Pb	0.010647	4.646	1421.044	ug/L	1090.359
> 169 Tm-1			1374245.019	ug/L	1329102.281
[ 50 Cr	0.707787	8.564	-92.660	ug/L	-304.545
53 Cr	-3.116755	92.600	27667.428	ug/L	30306.384
61 Ni	-0.865711	209.483	2514.345	ug/L	2653.794
63 Cu	-0.026161	14.459	201.340	ug/L	267.345
67 Zn	0.890885	134.473	1521.705	ug/L	1492.357
66 Zn	0.247612	30.395	706.080	ug/L	592.390
> 72 Ge			2027655.878	ug/L	2104942.104
[ 108 Cd	0.042906	171.428	38.623	ug/L	29.486
114 Cd	0.008160	9.427	196.815	ug/L	141.940
> 115 In			2044590.526	ug/L	1982073.555
[ 208 207.977	0.009849	18.497	714.363	ug/L	558.351
207 Pb	0.012214	28.246	301.672	ug/L	223.336
206 Pb	0.010902	17.634	405.009	ug/L	308.672
> 169 Tm			1374245.019	ug/L	1329102.281
[ 106 Pd	0.016369	354.729	59.334	ug/L	55.334
83 Kr	3.139008	1325.338	476.680	ug/L	474.346
182 W			11.333	ug/L	5.333

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Sample ID: CCB 8

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	87.445
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	96.328
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	103.154
[ Pb	208	
[> Tm-1	169	103.396
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	96.328
[ Cd	108	
[ Cd	114	
[> In	115	103.154
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	103.396
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: LLSTD 10X

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 21:18:43

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\LLSTD 10X.058

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 9

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			831501.954	ug/L	854235.854
[ 9 Be	0.914439	7.635	350.007	ug/L	3.667
[ 27 Al	44.738883	0.707	492809.586	ug/L	134965.982
[ 52 Cr	1.932033	7.428	51762.793	ug/L	27671.053
[ 55 Mn	1.115999	0.974	26602.047	ug/L	4526.170
[ 59 Co	1.021342	2.110	14672.295	ug/L	116.334
[ 60 Ni	1.041934	0.643	3447.309	ug/L	218.354
[ 65 Cu	1.114467	1.920	3813.742	ug/L	330.637
[ 68 Zn	11.397274	1.367	16763.044	ug/L	2414.667
[ 75 As	0.182995	54.063	20070.582	ug/L	18867.308
> 72 Ge-1			2177919.268	ug/L	2104942.104
[ 111 Cd	0.869843	1.803	2757.480	ug/L	49.935
[ 121 Sb	0.310500	1.941	4538.510	ug/L	1405.114
[ 135 Ba	0.937643	2.759	3054.200	ug/L	299.672
> 115 In-1			2329176.734	ug/L	1982073.555
[ 208 Pb	0.973189	0.729	30555.806	ug/L	1090.359
> 169 Tm-1			1501290.272	ug/L	1329102.281
[ 50 Cr	1.810612	9.749	236.556	ug/L	-304.545
[ 53 Cr	17.868520	17.142	40713.056	ug/L	30306.384
[ 61 Ni	11.885837	10.995	3359.138	ug/L	2653.794
[ 63 Cu	1.142967	2.784	2911.690	ug/L	267.345
[ 67 Zn	12.212478	7.594	2790.246	ug/L	1492.357
[ 66 Zn	12.589119	0.765	8000.896	ug/L	592.390
> 72 Ge			2177919.268	ug/L	2104942.104
[ 108 Cd	0.663105	12.463	179.698	ug/L	29.486
[ 114 Cd	0.874937	2.799	6320.400	ug/L	141.940
> 115 In			2329176.734	ug/L	1982073.555
[ 208 207.977	0.988008	0.465	15628.278	ug/L	558.351
[ 207 Pb	0.949093	1.343	6267.578	ug/L	223.336
[ 206 Pb	0.964804	0.874	8659.950	ug/L	308.672
> 169 Tm			1501290.272	ug/L	1329102.281
[ 106 Pd	0.883950	10.732	271.338	ug/L	55.334
[ 83 Kr	34.529021	6.748	500.014	ug/L	474.346
[ 182 W			16.333	ug/L	5.333

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G6K020151 Sample ID: LLSTD 10X

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	97.339
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	103.467
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	117.512
[ Pb	208	
[> Tm-1	169	112.955
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	103.467
[ Cd	108	
[ Cd	114	
[> In	115	117.512
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	112.955
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: LLSTD 5X

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 21:21:56

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\LLSTD 5X.059

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 10

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			812398.199	ug/L	854235.854
[ 9 Be	1.812948	4.744	675.026	ug/L	3.667
[ 27 Al	100.611820	1.404	926300.980	ug/L	134965.982
[ 52 Cr	2.676717	4.488	60181.665	ug/L	27671.053
[ 55 Mn	2.175350	1.095	47024.032	ug/L	4526.170
[ 59 Co	1.982144	0.890	28132.154	ug/L	116.334
[ 60 Ni	2.037340	3.017	6471.847	ug/L	218.354
[ 65 Cu	2.123679	2.223	6901.444	ug/L	330.637
[ 68 Zn	15.003107	0.794	21103.419	ug/L	2414.667
[ 75 As	1.207284	21.362	22951.400	ug/L	18867.308
> 72 Ge-1			2160259.036	ug/L	2104942.104
[ 111 Cd	1.689753	0.388	5449.932	ug/L	49.935
[ 121 Sb	0.710328	0.711	8486.780	ug/L	1405.114
[ 135 Ba	1.796368	1.802	5682.178	ug/L	299.672
> 115 In-1			2394342.972	ug/L	1982073.555
[ 208 Pb	1.961623	2.414	59324.416	ug/L	1090.359
> 169 Tm-1			1476496.991	ug/L	1329102.281
[ 50 Cr	3.022301	3.391	600.824	ug/L	-304.545
[ 53 Cr	13.748703	17.462	38247.145	ug/L	30306.384
[ 61 Ni	12.652289	33.872	3371.490	ug/L	2653.794
[ 63 Cu	2.100406	0.829	5077.455	ug/L	267.345
[ 67 Zn	16.206742	6.202	3171.610	ug/L	1492.357
[ 66 Zn	16.428817	2.540	10171.534	ug/L	592.390
> 72 Ge			2160259.036	ug/L	2104942.104
[ 108 Cd	1.313153	15.530	330.658	ug/L	29.486
[ 114 Cd	1.690278	1.895	12391.947	ug/L	141.940
> 115 In			2394342.972	ug/L	1982073.555
[ 208 207.977	1.991566	2.829	30341.182	ug/L	558.351
[ 207 Pb	1.922123	2.217	12225.869	ug/L	223.336
[ 206 Pb	1.937922	1.910	16757.364	ug/L	308.672
> 169 Tm			1476496.991	ug/L	1329102.281
[ 106 Pd	1.848408	1.597	507.015	ug/L	55.334
[ 83 Kr	26.008885	128.827	493.681	ug/L	474.346
[ 182 W			11.333	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 21:23:29

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	95.102
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	102.628
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	120.800
[ Pb	208	
[> Tm-1	169	111.090
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	102.628
[ Cd	108	
[ Cd	114	
[> In	115	120.800
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	111.090
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: ICSA**

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 21:28:42

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\ICSA.060

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			542313.462	ug/L	854235.854
[ 9 Be	0.044528	43.545	13.333	ug/L	3.667
[ 27 Al	110281.253579	0.508	617952655.900	ug/L	134965.982
[ 52 Cr	2.350900	2.077	40287.874	ug/L	27671.053
[ 55 Mn	4.855645	0.693	71008.037	ug/L	4526.170
[ 59 Co	2.631202	1.127	26694.007	ug/L	116.334
[ 60 Ni	1.325638	6.275	3067.005	ug/L	218.354
[ 65 Cu	0.293520	27.354	890.218	ug/L	330.637
[ 68 Zn	1.709872	7.869	3290.619	ug/L	2414.667
[ 75 As	1.104618	31.232	16198.118	ug/L	18867.308
> 72 Ge-1			1545707.211	ug/L	2104942.104
[ 111 Cd	0.498335	25.681	1055.155	ug/L	49.935
[ 121 Sb	0.174209	3.071	2155.932	ug/L	1405.114
[ 135 Ba	0.926091	5.349	1989.560	ug/L	299.672
> 115 In-1			1534905.192	ug/L	1982073.555
[ 208 Pb	0.710482	0.481	17426.031	ug/L	1090.359
> 169 Tm-1			1155549.257	ug/L	1329102.281
[ 50 Cr	219.432460	6.375	47263.279	ug/L	-304.545
[ 53 Cr	20.195695	2.476	29764.465	ug/L	30306.384
[ 61 Ni	53.446999	5.572	3907.778	ug/L	2653.794
[ 63 Cu	5.069230	1.215	8491.862	ug/L	267.345
[ 67 Zn	29.241930	2.724	3213.319	ug/L	1492.357
[ 66 Zn	7.606993	1.703	3602.742	ug/L	592.390
> 72 Ge			1545707.211	ug/L	2104942.104
[ 108 Cd	63.217927	4.783	9125.801	ug/L	29.486
[ 114 Cd	3.666331	4.155	17096.742	ug/L	141.940
> 115 In			1534905.192	ug/L	1982073.555
[ 208 207.977	0.731371	1.348	9030.324	ug/L	558.351
[ 207 Pb	0.722130	1.412	3717.123	ug/L	223.336
[ 206 Pb	0.665105	1.610	4678.584	ug/L	308.672
> 169 Tm			1155549.257	ug/L	1329102.281
[ 106 Pd	1.396869	3.160	396.676	ug/L	55.334
[ 83 Kr	504.941643	10.928	849.708	ug/L	474.346
[ 182 W			953.812	ug/L	5.333

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	63.485
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	73.432
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	77.439
[ Pb	208	
[> Tm-1	169	86.942
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	73.432
[ Cd	108	
[ Cd	114	
[> In	115	77.439
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	86.942
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: ICSAB

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 21:32:24

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\ICSAB.061

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 83

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

*wrong autosampler position entered  
SFV 11/22/06*

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			599880.027	ug/L	854235.854
9 Be	0.013678	26.821	6.333	ug/L	3.667
27 Al	193.495207	2.416	1483260.637	ug/L	134965.982
52 Cr	4.724680	5.489	75771.666	ug/L	27671.053
55 Mn	8.508412	2.973	152824.734	ug/L	4526.170
59 Co	0.427124	2.768	5521.075	ug/L	116.334
60 Ni	3.326172	3.266	9349.243	ug/L	218.354
65 Cu	83.767147	2.376	232470.354	ug/L	330.637
68 Zn	102.303721	1.721	116155.340	ug/L	2414.667
75 As	1.910351	13.950	22462.244	ug/L	18867.308
> 72 Ge-1			1938636.544	ug/L	2104942.104
111 Cd	0.161362	9.152	481.460	ug/L	49.935
121 Sb	1.476798	1.344	13262.383	ug/L	1405.114
135 Ba	17.405042	3.211	43514.601	ug/L	299.672
> 115 In-1			2008337.562	ug/L	1982073.555
208 Pb	7.175832	1.733	198348.355	ug/L	1090.359
> 169 Tm-1			1369540.420	ug/L	1329102.281
50 Cr	5.444280	10.069	1193.988	ug/L	-304.545
53 Cr	-20.591414	15.795	18280.070	ug/L	30306.384
61 Ni	18.161054	24.087	3274.716	ug/L	2653.794
63 Cu	83.307595	2.030	171132.698	ug/L	267.345
67 Zn	92.194901	5.952	9736.481	ug/L	1492.357
66 Zn	106.837746	2.375	56334.383	ug/L	592.390
> 72 Ge			1938636.544	ug/L	2104942.104
108 Cd	0.608953	24.477	144.121	ug/L	29.486
114 Cd	0.118840	8.119	863.402	ug/L	141.940
> 115 In			2008337.562	ug/L	1982073.555
208 207.977	7.351485	1.627	102364.636	ug/L	558.351
207 Pb	7.344111	2.881	42683.206	ug/L	223.336
206 Pb	6.742506	1.118	53300.514	ug/L	308.672
> 169 Tm			1369540.420	ug/L	1329102.281
106 Pd	1.688800	5.248	468.013	ug/L	55.334
83 Kr	29.147870	57.646	496.014	ug/L	474.346
182 W			288.013	ug/L	5.333

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Sample ID: ICSAB

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	70.224
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	92.099
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	101.325
[ Pb	208	
[> Tm-1	169	103.043
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	92.099
[ Cd	108	
[ Cd	114	
[> In	115	101.325
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	103.043
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: ICSAB

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 21:37:59

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\ICSAB.062

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			536881.669	ug/L	854235.854
[ 9 Be	102.093076	3.633	24980.301	ug/L	3.667
[ 27 Al	113176.055861	4.768	621988410.192	ug/L	134965.982
[ 52 Cr	107.774543	3.609	918119.269	ug/L	27671.053
[ 55 Mn	101.884660	3.334	1396380.434	ug/L	4526.170
[ 59 Co	107.082805	3.302	1062285.815	ug/L	116.334
[ 60 Ni	101.223725	3.486	218019.997	ug/L	218.354
[ 65 Cu	97.028540	3.262	210667.535	ug/L	330.637
[ 68 Zn	92.587641	3.985	82409.088	ug/L	2414.667
[ 75 As	108.581100	3.072	240196.856	ug/L	18867.308
> 72 Ge-1			1516884.952	ug/L	2104942.104
[ 111 Cd	97.692120	4.333	195028.419	ug/L	49.935
[ 121 Sb	54.114490	4.427	324736.001	ug/L	1405.114
[ 135 Ba	116.715597	3.676	216581.833	ug/L	299.672
> 115 In-1			1499442.267	ug/L	1982073.555
[ 208 Pb	86.387671	3.933	1951983.385	ug/L	1090.359
> 169 Tm-1			1126005.021	ug/L	1329102.281
[ 50 Cr	268.911293	6.178	56895.773	ug/L	-304.545
[ 53 Cr	124.135351	5.223	67090.321	ug/L	30306.384
[ 61 Ni	149.865022	4.300	7296.175	ug/L	2653.794
[ 63 Cu	102.827779	3.281	165230.213	ug/L	267.345
[ 67 Zn	123.723436	5.053	9861.546	ug/L	1492.357
[ 66 Zn	102.944101	3.279	42487.982	ug/L	592.390
> 72 Ge			1516884.952	ug/L	2104942.104
[ 108 Cd	165.654653	3.260	23322.497	ug/L	29.486
[ 114 Cd	101.388256	4.319	458869.375	ug/L	141.940
> 115 In			1499442.267	ug/L	1982073.555
[ 208 207.977	86.185012	3.830	981080.589	ug/L	558.351
[ 207 Pb	86.244194	4.304	409863.279	ug/L	223.336
[ 206 Pb	86.850340	3.890	561039.517	ug/L	308.672
> 169 Tm			1126005.021	ug/L	1329102.281
[ 106 Pd	75.361371	1.798	18470.812	ug/L	55.334
[ 83 Kr	547.992789	13.142	881.711	ug/L	474.346
[ 182 W			956.813	ug/L	5.333

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	62.849
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	72.063
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	75.650
[ Pb	208	
[> Tm-1	169	84.719
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	72.063
[ Cd	108	
[ Cd	114	
[> In	115	75.650
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	84.719
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

## Sample ID: Rinse

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 21:41:44

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\Rinse.063

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			612010.749	ug/L	854235.854
[ 9 Be	0.004929	147.904	4.000	ug/L	3.667
[ 27 Al	-7.277764	4.734	75257.304	ug/L	134965.982
[ 52 Cr	0.657174	9.447	33433.128	ug/L	27671.053
[ 55 Mn	-0.141085	1.773	1751.842	ug/L	4526.170
[ 59 Co	0.002890	48.326	148.001	ug/L	116.334
[ 60 Ni	-0.037546	4.710	100.584	ug/L	218.354
[ 65 Cu	-0.038424	15.830	203.490	ug/L	330.637
[ 68 Zn	0.299262	21.134	2631.396	ug/L	2414.667
[ 75 As	0.935512	28.817	20441.629	ug/L	18867.308
> 72 Ge-1			1994905.277	ug/L	2104942.104
[ 111 Cd	-0.002768	69.604	43.784	ug/L	49.935
[ 121 Sb	-0.143046	1.102	280.671	ug/L	1405.114
[ 135 Ba	0.024132	13.278	368.674	ug/L	299.672
> 115 In-1			2036290.271	ug/L	1982073.555
[ 208 Pb	-0.007851	8.820	919.352	ug/L	1090.359
> 169 Tm-1			1386984.807	ug/L	1329102.281
[ 50 Cr	0.538608	6.180	-138.420	ug/L	-304.545
[ 53 Cr	11.632269	16.455	34291.121	ug/L	30306.384
[ 61 Ni	19.425191	5.224	3433.219	ug/L	2653.794
[ 63 Cu	-0.041734	8.977	165.338	ug/L	267.345
[ 67 Zn	4.590208	19.528	1842.210	ug/L	1492.357
[ 66 Zn	0.928801	8.321	1061.181	ug/L	592.390
> 72 Ge			1994905.277	ug/L	2104942.104
[ 108 Cd	0.140750	31.747	57.226	ug/L	29.486
[ 114 Cd	0.006967	35.979	188.610	ug/L	141.940
> 115 In			2036290.271	ug/L	1982073.555
[ 208 207.977	-0.008384	15.870	465.012	ug/L	558.351
[ 207 Pb	-0.006340	39.591	196.002	ug/L	223.336
[ 206 Pb	-0.008022	36.434	258.337	ug/L	308.672
> 169 Tm			1386984.807	ug/L	1329102.281
[ 106 Pd	-0.092759	9.184	32.667	ug/L	55.334
[ 83 Kr	284.307423	30.018	685.694	ug/L	474.346
[ 182 W			11.333	ug/L	5.333

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### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	71.644
[ Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	94.772
[ Cd	111	
Sb	121	
Ba	135	
[> In-1	115	102.735
[ Pb	208	
[> Tm-1	169	104.355
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	94.772
[ Cd	108	
Cd	114	
[> In	115	102.735
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	104.355
Pd	106	
Kr	83	
W	182	

**BJones**

**Sample ID: CCV 9**

Sample Description:  
 Batch ID:  
 Sample Date/Time: Wednesday, November 22, 2006 21:45:31  
 Method File: C:\elandata\Method\6321133.mth  
 Dataset File: c:\elandata\dataset\061122b1\CCV 9.064  
 Tuning File: c:\elandata\Tuning\default.tun  
 Optimization File: C:\elandata\Optimize\default.dac  
 Autosampler Position: 4  
 Number of Replicates: 3  
 Dual Detector Mode: Dual  
 Initial Sample Quantity (mg):  
 Sample Prep Volume (mL):  
 Aliquot Volume (mL):  
 Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			659498.535	ug/L	854235.854
> 9 Be	105.825367	1.575	31819.767	ug/L	3.667
> 27 Al	5185.731299	0.353	38302667.814	ug/L	134965.982
> 52 Cr	97.015988	2.420	1109644.223	ug/L	27671.053
> 55 Mn	93.180261	1.370	1710854.624	ug/L	4526.170
> 59 Co	98.446166	2.091	1308022.476	ug/L	116.334
> 60 Ni	98.381190	0.478	283844.245	ug/L	218.354
> 65 Cu	100.380650	1.120	291915.428	ug/L	330.637
> 68 Zn	96.030166	1.017	114402.371	ug/L	2414.667
> 75 As	101.833025	0.530	302856.481	ug/L	18867.308
> 72 Ge-1			2030917.959	ug/L	2104942.104
> 111 Cd	97.075697	0.786	259693.255	ug/L	49.935
> 121 Sb	49.611123	0.677	399069.554	ug/L	1405.114
> 135 Ba	102.524621	0.221	254953.028	ug/L	299.672
> 115 In-1			2007802.827	ug/L	1982073.555
> 208 Pb	91.106563	0.284	2501687.551	ug/L	1090.359
> 169 Tm-1			1367458.022	ug/L	1329102.281
> 50 Cr	92.971581	1.981	26123.547	ug/L	-304.545
> 53 Cr	99.578789	4.131	77874.724	ug/L	30306.384
> 61 Ni	109.972824	2.306	7853.189	ug/L	2653.794
> 63 Cu	100.780934	1.920	216905.419	ug/L	267.345
> 67 Zn	102.989697	1.223	11237.503	ug/L	1492.357
> 66 Zn	98.781508	1.280	54629.422	ug/L	592.390
> 72 Ge			2030917.959	ug/L	2104942.104
> 108 Cd	97.808930	0.600	18462.292	ug/L	29.486
> 114 Cd	97.090226	0.944	588838.457	ug/L	141.940
> 115 In			2007802.827	ug/L	1982073.555
> 208 207.977	90.290750	0.360	1249003.662	ug/L	558.351
> 207 Pb	91.649842	0.616	529333.585	ug/L	223.336
> 206 Pb	92.144404	0.122	723350.303	ug/L	308.672
> 169 Tm			1367458.022	ug/L	1329102.281
> 106 Pd	100.361121	0.382	24579.809	ug/L	55.334
> 83 Kr	632.301549	8.145	944.384	ug/L	474.346
> 182 W			95.335	ug/L	5.333

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	77.203
[ Be	9	
[ Al	27	
[ Cr	52	
[ Mn	55	
[ Co	59	
[ Ni	60	
[ Cu	65	
[ Zn	68	
[ As	75	
[> Ge-1	72	96.483
[ Cd	111	
[ Sb	121	
[ Ba	135	
[> In-1	115	101.298
[ Pb	208	
[> Tm-1	169	102.886
[ Cr	50	
[ Cr	53	
[ Ni	61	
[ Cu	63	
[ Zn	67	
[ Zn	66	
[> Ge	72	96.483
[ Cd	108	
[ Cd	114	
[> In	115	101.298
[ 207.977	208	
[ Pb	207	
[ Pb	206	
[> Tm	169	102.886
[ Pd	106	
[ Kr	83	
[ W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 9

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 21:49:17

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCB 9.065

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
> 6 Li-1			672573.321	ug/L	854235.854
[ 9 Be	0.016726	40.202	8.000	ug/L	3.667
[ 27 Al	4.644487	12.447	170463.393	ug/L	134965.982
[ 52 Cr	0.959850	7.675	38800.216	ug/L	27671.053
[ 55 Mn	-0.005028	126.504	4432.456	ug/L	4526.170
[ 59 Co	0.013816	6.745	306.672	ug/L	116.334
[ 60 Ni	0.012012	52.953	254.497	ug/L	218.354
[ 65 Cu	-0.013799	9.375	289.282	ug/L	330.637
[ 68 Zn	-0.444860	17.606	1876.868	ug/L	2414.667
[ 75 As	0.860991	26.302	21369.083	ug/L	18867.308
> 72 Ge-1			2106118.876	ug/L	2104942.104
[ 111 Cd	0.008216	36.836	76.052	ug/L	49.935
[ 121 Sb	0.004266	297.528	1527.800	ug/L	1405.114
[ 135 Ba	0.019499	37.596	369.008	ug/L	299.672
> 115 In-1			2104809.451	ug/L	1982073.555
> 208 Pb	0.009280	7.557	1395.376	ug/L	1090.359
> 169 Tm-1			1386334.144	ug/L	1329102.281
> 50 Cr	0.702895	8.715	-97.604	ug/L	-304.545
[ 53 Cr	5.922392	18.507	33319.027	ug/L	30306.384
[ 61 Ni	11.947847	35.239	3250.360	ug/L	2653.794
[ 63 Cu	-0.023673	9.563	214.674	ug/L	267.345
[ 67 Zn	2.817757	43.046	1770.169	ug/L	1492.357
[ 66 Zn	0.130445	46.708	666.738	ug/L	592.390
> 72 Ge			2106118.876	ug/L	2104942.104
[ 108 Cd	0.052198	88.298	41.609	ug/L	29.486
[ 114 Cd	0.009032	23.408	208.147	ug/L	141.940
> 115 In			2104809.451	ug/L	1982073.555
[ 208 207.977	0.009749	5.295	719.030	ug/L	558.351
[ 207 Pb	0.010036	4.575	291.672	ug/L	223.336
[ 206 Pb	0.007897	28.994	384.675	ug/L	308.672
> 169 Tm			1386334.144	ug/L	1329102.281
[ 106 Pd	0.015005	223.237	59.000	ug/L	55.334
[ 83 Kr	546.647319	5.488	880.711	ug/L	474.346
[ 182 W			8.667	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 21:50:52

Page 1

Sample ID: CCB 9

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
[> Li-1	6	78.734
[ Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	100.056
[ Cd	111	
Sb	121	
Ba	135	
[> In-1	115	106.192
[ Pb	208	
[> Tm-1	169	104.306
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	100.056
[ Cd	108	
Cd	114	
[> In	115	106.192
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	104.306
Pd	106	
Kr	83	
W	182	



# STL

## STL Sacramento ICP-MS Data Review Checklist Level I and Level II

Instrument ID (Circle one): <u>M01</u> M02		Method 6020 SOP SAC-MT-0001		
File Number 061127A1	Batch Numbers 6321133, 6326120, 6321081, 6317263	Date 11/27/06	Analyst BRJ	
Lot Numbers G6K020146, G6K020151, G6K090141, G6K140165, G6J250276, G6K060161, G6J260249, G6J300165		YES	NO	NA
1. Copy of analysis protocol used included?		✓		
2. ICVs & CCVs within 10% of true value or recal and rerun?		✓		
3. ICB & CCBs < reporting limit or recal and rerun?		✓		
4. 10 samples or less analyzed between calibration checks?		✓		
5. All parameters within linear range?		✓		
6. LCS/LCSD within limits?		✓		
7. Prep blank value < reporting limit or all samples >20x blank?		✓		
8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <130% of the Calibration Blank intensities?		✓		
9. Appropriate dilution factors applied to data?		✓		
10. Matrix spike and spike dup within customer defined limits?				✓
11. Each batch checked for presence of internal standard in samples?		✓		✓
12. Anomalies entered using Clouseau?				✓

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

REVIEWED BY: <u>MTZ</u>	DATA ENTERED BY: <u>BRJ</u>
DATE: <u>11/28/06</u>	DATE: <u>11/28/06</u>

# Dataset Report

Perkin Elmer ICPMS M01  
 SOP No. SAC-MT-0001  
 Method 6020  
 User Name: JonesB  
 Computer Name: SACP317A  
 Dataset File Path: C:\elandata\Dataset\061127A1\  
 Report Date/Time: Monday, November 27, 2006 17:12:25

## The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	TUNE BJONES	11:57:51 Mon 27-Nov-06	Sample	
	AUTOLENS BJONES	12:03:20 Mon 27-Nov-06	Sample	Auto Lens Calib
	DAILY BJONES	12:05:26 Mon 27-Nov-06	Sample	
	Rinse	12:31:50 Mon 27-Nov-06	Sample	
	Blank	12:34:59 Mon 27-Nov-06	Blank	
	Standard 1	12:38:01 Mon 27-Nov-06	Standard #1	
	ICV	12:40:48 Mon 27-Nov-06	Sample	
	ICB	12:43:40 Mon 27-Nov-06	Sample	
	LLSTD 10X	12:46:36 Mon 27-Nov-06	Sample	
	LLSTD 5X	12:48:54 Mon 27-Nov-06	Sample	
	ICSA	12:51:35 Mon 27-Nov-06	Sample	
	ICSAB	12:54:24 Mon 27-Nov-06	Sample	
	Rinse	12:57:16 Mon 27-Nov-06	Sample	
	CCV 1	13:00:09 Mon 27-Nov-06	Sample	
	CCB 1	13:03:42 Mon 27-Nov-06	Sample	
	CCV 2	13:06:34 Mon 27-Nov-06	Sample	
	CCB 2	13:09:26 Mon 27-Nov-06	Sample	
6321133	JJXAJC	13:12:16 Mon 27-Nov-06	Sample	G6K170000-133 LCS
6321133	JJXAJL	13:15:04 Mon 27-Nov-06	Sample	G6K170000-133 LCSD
6326120	JJ71FC	13:17:52 Mon 27-Nov-06	Sample	G6K220000-120 LCS
6326120	JJ71FL	13:20:40 Mon 27-Nov-06	Sample	G6K220000-120 LCSD
	Rinse	13:23:31 Mon 27-Nov-06	Sample	
6321133	JJXAJB	13:26:24 Mon 27-Nov-06	Sample	G6K170000-133 BLK
6321133	MB CONTROL	13:29:23 Mon 27-Nov-06	Sample	
6326120	JJ71FB	13:31:42 Mon 27-Nov-06	Sample	G6K220000-120 BLK
6326120	MB CONTROL	13:34:41 Mon 27-Nov-06	Sample	
	CCV 3	13:36:59 Mon 27-Nov-06	Sample	
	CCB 3	13:39:51 Mon 27-Nov-06	Sample	
	CCV 4	13:42:44 Mon 27-Nov-06	Sample	
	CCB 4	13:45:36 Mon 27-Nov-06	Sample	
6321133	JHQ8V	13:48:27 Mon 27-Nov-06	Sample	G6K020146-1
6321133	JHQ8VP5	13:51:15 Mon 27-Nov-06	Sample	G6K020146-1 5X
6321133	JHQ8VZ	13:54:04 Mon 27-Nov-06	Sample	G6K020146-1 PS
6321133	JHQ88	13:56:53 Mon 27-Nov-06	Sample	G6K020146-2
6321133	JHQ9A	13:59:42 Mon 27-Nov-06	Sample	G6K020146-3
6321133	JHQ9F	14:02:32 Mon 27-Nov-06	Sample	G6K020146-4
6321133	JHQ9H	14:05:22 Mon 27-Nov-06	Sample	G6K020146-5
6321133	JHRAM	14:08:13 Mon 27-Nov-06	Sample	G6K020151-1
6321133	JHRAX	14:11:04 Mon 27-Nov-06	Sample	G6K020151-2
6321133	JHRA2	14:13:55 Mon 27-Nov-06	Sample	G6K020151-3
	CCV 5	14:16:47 Mon 27-Nov-06	Sample	
	CCB 5	14:19:40 Mon 27-Nov-06	Sample	
	CCV 6	14:22:32 Mon 27-Nov-06	Sample	
	CCB 6	14:25:24 Mon 27-Nov-06	Sample	
6321133	JHRA4	14:28:17 Mon 27-Nov-06	Sample	G6K020151-4
6326120	JJACE	14:31:07 Mon 27-Nov-06	Sample	G6K090141-1
6326120	JJACEP5	14:33:55 Mon 27-Nov-06	Sample	G6K090141-1 5X
6326120	JJACEZ	14:36:43 Mon 27-Nov-06	Sample	G6K090141-1 PS
6326120	JJACG	14:39:32 Mon 27-Nov-06	Sample	G6K090141-2

6326120	JJACH	14:42:21 Mon 27-Nov-06	Sample	G6K090141-3
6326120	JJACJ	14:45:11 Mon 27-Nov-06	Sample	G6K090141-4
6326120	JJACK	14:48:01 Mon 27-Nov-06	Sample	G6K090141-5
6326120	JJMHA	14:50:52 Mon 27-Nov-06	Sample	G6K140165-1
6326120	JJMHE	14:53:43 Mon 27-Nov-06	Sample	G6K140165-2
	CCV 7	14:56:34 Mon 27-Nov-06	Sample	
	CCB 7	14:59:27 Mon 27-Nov-06	Sample	
	CCV 8	15:02:19 Mon 27-Nov-06	Sample	
	CCB 8	15:05:12 Mon 27-Nov-06	Sample	
6326120	JJMHF	15:08:04 Mon 27-Nov-06	Sample	G6K140165-3
	LLSTD 10X	15:10:58 Mon 27-Nov-06	Sample	
	LLSTD 5X	15:13:17 Mon 27-Nov-06	Sample	
	ICSA	15:15:31 Mon 27-Nov-06	Sample	
	ICSAB	15:18:20 Mon 27-Nov-06	Sample	
	Rinse	15:21:12 Mon 27-Nov-06	Sample	
	CCV 9	15:24:05 Mon 27-Nov-06	Sample	
	CCB 9	15:26:57 Mon 27-Nov-06	Sample	
	CCV 10	15:29:49 Mon 27-Nov-06	Sample	
	CCB 10	15:32:42 Mon 27-Nov-06	Sample	
6321081	JG77M	15:35:32 Mon 27-Nov-06	Sample	G6J250276-3
6321081	JG77Q	15:38:19 Mon 27-Nov-06	Sample	G6J250276-4
6321081	JG77T	15:41:07 Mon 27-Nov-06	Sample	G6J250276-5
6321081	JG77V	15:43:55 Mon 27-Nov-06	Sample	G6J250276-6
6321081	JG77X	15:46:44 Mon 27-Nov-06	Sample	G6J250276-7
6321081	JG77Z	15:49:33 Mon 27-Nov-06	Sample	G6J250276-8
6321081	JH244	15:52:23 Mon 27-Nov-06	Sample	G6K060161-1
6321081	JH249	15:55:13 Mon 27-Nov-06	Sample	G6K060161-2
6321081	JH25C	15:58:03 Mon 27-Nov-06	Sample	G6K060161-3
6321081	JH25D	16:00:54 Mon 27-Nov-06	Sample	G6K060161-4
	CCV 11	16:03:45 Mon 27-Nov-06	Sample	
	CCB 11	16:06:38 Mon 27-Nov-06	Sample	
	CCV 12	16:09:30 Mon 27-Nov-06	Sample	
	CCB 12	16:12:22 Mon 27-Nov-06	Sample	
6317263	JJKH2B	16:15:16 Mon 27-Nov-06	Sample	G6K130000-263 BLK
6317263	JHA94	16:18:09 Mon 27-Nov-06	Sample	G6J260249-1
6317263	JHA94P5	16:21:00 Mon 27-Nov-06	Sample	G6J260249-1 5X
6317263	JHA94Z	16:23:52 Mon 27-Nov-06	Sample	G6J260249-1 PS
6317263	JHA95	16:26:45 Mon 27-Nov-06	Sample	G6J260249-2
6317263	JHA96	16:29:37 Mon 27-Nov-06	Sample	G6J260249-3
6317263	JHA97	16:32:30 Mon 27-Nov-06	Sample	G6J260249-4
6317263	JHA99	16:35:24 Mon 27-Nov-06	Sample	G6J260249-5
6317263	JHCAA	16:38:18 Mon 27-Nov-06	Sample	G6J260249-6
6317263	JHCAC	16:41:12 Mon 27-Nov-06	Sample	G6J260249-7
	CCV 13	16:44:05 Mon 27-Nov-06	Sample	
	CCB 13	16:46:57 Mon 27-Nov-06	Sample	

*REC'D*

## STL Sacramento

## RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 11/28/06 15:14:25

File ID: 061127A1

Analyst: ionesb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
1	Rinse				1.0	11/27/06 12:31	<input type="checkbox"/>
2	Blank				1.0	11/27/06 12:34	<input type="checkbox"/>
3	Standard1				1.0	11/27/06 12:38	<input type="checkbox"/>
4	ICV				1.0	11/27/06 12:40	<input type="checkbox"/>
5	ICB				1.0	11/27/06 12:43	<input type="checkbox"/>
6	LLSTD 10X				10.0	11/27/06 12:46	<input type="checkbox"/>
7	LLSTD 5X				5.0	11/27/06 12:48	<input type="checkbox"/>
8	ICSA				1.0	11/27/06 12:51	<input type="checkbox"/>
9	ICSAB				1.0	11/27/06 12:54	<input type="checkbox"/>
10	Rinse				1.0	11/27/06 12:57	<input type="checkbox"/>
11	CCV 1				1.0	11/27/06 13:00	<input type="checkbox"/>
12	CCB 1				1.0	11/27/06 13:03	<input type="checkbox"/>
13	CCV 2				1.0	11/27/06 13:06	<input type="checkbox"/>
14	CCB 2				1.0	11/27/06 13:09	<input type="checkbox"/>
15	JJXAJC	G6K170000	6321133	2A	1.0	11/27/06 13:12	<input type="checkbox"/>
16	JJXAJL	G6K170000	6321133	2A	1.0	11/27/06 13:15	<input type="checkbox"/>
17	JJ71FC	G6K220000	6326120	2A	1.0	11/27/06 13:17	<input type="checkbox"/>
18	JJ71FL	G6K220000	6326120	2A	1.0	11/27/06 13:20	<input type="checkbox"/>
19	Rinse				1.0	11/27/06 13:23	<input type="checkbox"/>
20	JJXAJB	G6K170000	6321133	2A	1.0	11/27/06 13:26	<input type="checkbox"/>
21	MB CONTRO				1.0	11/27/06 13:29	<input type="checkbox"/>
22	JJ71FB	G6K220000	6326120	2A	1.0	11/27/06 13:31	<input type="checkbox"/>
23	MB CONTRO				1.0	11/27/06 13:34	<input type="checkbox"/>
24	CCV 3				1.0	11/27/06 13:36	<input type="checkbox"/>
25	CCB 3				1.0	11/27/06 13:39	<input type="checkbox"/>
26	CCV 4				1.0	11/27/06 13:42	<input type="checkbox"/>
27	CCB 4				1.0	11/27/06 13:45	<input type="checkbox"/>
28	JHQ8V	G6K020146-1	6321133	2A	1.0	11/27/06 13:48	<input type="checkbox"/>
29	JHQ8VP5	G6K020146	6321133		5.0	11/27/06 13:51	<input type="checkbox"/>
30	JHQ8VZ	G6K020146-1	6321133		1.0	11/27/06 13:54	<input type="checkbox"/>
31	JHQ88	G6K020146-2	6321133	2A	1.0	11/27/06 13:56	<input type="checkbox"/>
32	JHQ9A	G6K020146-3	6321133	2A	1.0	11/27/06 13:59	<input type="checkbox"/>
33	JHQ9F	G6K020146-4	6321133	2A	1.0	11/27/06 14:02	<input type="checkbox"/>
34	JHQ9H	G6K020146-5	6321133	2A	1.0	11/27/06 14:05	<input type="checkbox"/>
35	JHRAM	G6K020151-1	6321133	2A	1.0	11/27/06 14:08	<input type="checkbox"/>
36	JHRAX	G6K020151-2	6321133	2A	1.0	11/27/06 14:11	<input type="checkbox"/>
37	JHRA2	G6K020151-3	6321133	2A	1.0	11/27/06 14:13	<input type="checkbox"/>
38	CCV 5				1.0	11/27/06 14:16	<input type="checkbox"/>
39	CCB 5				1.0	11/27/06 14:19	<input type="checkbox"/>
40	CCV 6				1.0	11/27/06 14:22	<input type="checkbox"/>
41	CCB 6				1.0	11/27/06 14:25	<input type="checkbox"/>
42	JHRA4	G6K020151-4	6321133	2A	1.0	11/27/06 14:28	<input type="checkbox"/>
43	JJACE	G6K090141-1	6326120	2A	1.0	11/27/06 14:31	<input type="checkbox"/>
44	JJACEP5	G6K090141	6326120		5.0	11/27/06 14:33	<input type="checkbox"/>
45	JJACEZ	G6K090141-1	6326120		1.0	11/27/06 14:36	<input type="checkbox"/>
46	JJACG	G6K090141-2	6326120	2A	1.0	11/27/06 14:39	<input type="checkbox"/>

## STL Sacramento

## RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 11/28/06 15:14:25

File ID: 061127A1

Analyst: ionesh

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
47	JJACH	G6K090141-3	6326120	2A	1.0	11/27/06 14:42	<input type="checkbox"/>
48	JJACJ	G6K090141-4	6326120	2A	1.0	11/27/06 14:45	<input type="checkbox"/>
49	JJACK	G6K090141-5	6326120	2A	1.0	11/27/06 14:48	<input type="checkbox"/>
50	JJMHA	G6K140165-1	6326120	2A	1.0	11/27/06 14:50	<input type="checkbox"/>
51	JJMHE	G6K140165-2	6326120	2A	1.0	11/27/06 14:53	<input type="checkbox"/>
52	CCV 7				1.0	11/27/06 14:56	<input type="checkbox"/>
53	CCB 7				1.0	11/27/06 14:59	<input type="checkbox"/>
56	CCV 8				1.0	11/27/06 15:02	<input type="checkbox"/>
57	CCB 8				1.0	11/27/06 15:05	<input type="checkbox"/>
58	JJMHF	G6K140165-3	6326120	2A	1.0	11/27/06 15:08	<input type="checkbox"/>
59	LLSTD 10X				10.0	11/27/06 15:10	<input type="checkbox"/>
60	LLSTD 5X				5.0	11/27/06 15:13	<input type="checkbox"/>
61	ICSA				1.0	11/27/06 15:15	<input type="checkbox"/>
62	ICSAB				1.0	11/27/06 15:18	<input type="checkbox"/>
63	Rinse				1.0	11/27/06 15:21	<input type="checkbox"/>
64	CCV 9				1.0	11/27/06 15:24	<input type="checkbox"/>
65	CCB 9				1.0	11/27/06 15:26	<input type="checkbox"/>
66	CCV 10				1.0	11/27/06 15:29	<input type="checkbox"/>
67	CCB 10				1.0	11/27/06 15:32	<input type="checkbox"/>
68	JG77M	G6J250276-3	6321081	2A	1.0	11/27/06 15:35	<input type="checkbox"/>
69	JG77Q	G6J250276-4	6321081	2A	1.0	11/27/06 15:38	<input type="checkbox"/>
70	JG77T	G6J250276-5	6321081	2A	1.0	11/27/06 15:41	<input type="checkbox"/>
71	JG77V	G6J250276-6	6321081	2A	1.0	11/27/06 15:43	<input type="checkbox"/>
72	JG77X	G6J250276-7	6321081	2A	1.0	11/27/06 15:46	<input type="checkbox"/>
73	JG77Z	G6J250276-8	6321081	2A	1.0	11/27/06 15:49	<input type="checkbox"/>
74	JH244	G6K060161-1	6321081	2A	1.0	11/27/06 15:52	<input type="checkbox"/>
75	JH249	G6K060161-2	6321081	2A	1.0	11/27/06 15:55	<input type="checkbox"/>
76	JH25C	G6K060161-3	6321081	2A	1.0	11/27/06 15:58	<input type="checkbox"/>
77	JH25D	G6K060161-4	6321081	2A	1.0	11/27/06 16:00	<input type="checkbox"/>
78	CCV 11				1.0	11/27/06 16:03	<input type="checkbox"/>
79	CCB 11				1.0	11/27/06 16:06	<input type="checkbox"/>
80	CCV 12				1.0	11/27/06 16:09	<input type="checkbox"/>
81	CCB 12				1.0	11/27/06 16:12	<input type="checkbox"/>
82	JJKH2B	G6K130000	6317263	2A	1.0	11/27/06 16:15	<input type="checkbox"/>
83	JHA94	G6J260249-1	6317263	2A	1.0	11/27/06 16:18	<input type="checkbox"/>
84	JHA94P5	G6J260249	6317263		5.0	11/27/06 16:21	<input type="checkbox"/>
85	JHA94Z	G6J260249-1	6317263		1.0	11/27/06 16:23	<input type="checkbox"/>
86	JHA95	G6J260249-2	6317263	2A	1.0	11/27/06 16:26	<input type="checkbox"/>
87	JHA96	G6J260249-3	6317263	2A	1.0	11/27/06 16:29	<input type="checkbox"/>
88	JHA97	G6J260249-4	6317263	2A	1.0	11/27/06 16:32	<input type="checkbox"/>
89	JHA99	G6J260249-5	6317263	2A	1.0	11/27/06 16:35	<input type="checkbox"/>
90	JHCAA	G6J260249-6	6317263	2A	1.0	11/27/06 16:38	<input type="checkbox"/>
91	JHCAC	G6J260249-7	6317263	2A	1.0	11/27/06 16:41	<input type="checkbox"/>
92	CCV 13				1.0	11/27/06 16:44	<input type="checkbox"/>
93	CCB 13				1.0	11/27/06 16:46	<input type="checkbox"/>

## STL Sacramento

## INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 11/28/06 15:14:25

File ID: 061127A1

Analyst: ioneseb

Germanium

#	Sample ID	Analyzed Date		Q
1	Rinse	11/27/06 12:31	95.1	<input type="checkbox"/>
2	Blank	11/27/06 12:34	100.0	<input checked="" type="checkbox"/>
3	Standard1	11/27/06 12:38	97.7	<input checked="" type="checkbox"/>
4	ICV	11/27/06 12:40	97.7	<input checked="" type="checkbox"/>
5	ICB	11/27/06 12:43	98.6	<input checked="" type="checkbox"/>
6	LLSTD 10X	11/27/06 12:46	104.6	<input checked="" type="checkbox"/>
7	LLSTD 5X	11/27/06 12:48	103.7	<input checked="" type="checkbox"/>
8	ICSA	11/27/06 12:51	78.0	<input checked="" type="checkbox"/>
9	ICSAB	11/27/06 12:54	78.8	<input checked="" type="checkbox"/>
10	Rinse	11/27/06 12:57	99.5	<input checked="" type="checkbox"/>
11	CCV 1	11/27/06 13:00	100.2	<input checked="" type="checkbox"/>
12	CCB 1	11/27/06 13:03	100.3	<input checked="" type="checkbox"/>
13	CCV 2	11/27/06 13:06	99.8	<input checked="" type="checkbox"/>
14	CCB 2	11/27/06 13:09	103.3	<input checked="" type="checkbox"/>
15	JJXAJC	11/27/06 13:12	98.6	<input checked="" type="checkbox"/>
16	JJXAJL	11/27/06 13:15	97.1	<input checked="" type="checkbox"/>
17	JJ71FC	11/27/06 13:17	97.4	<input checked="" type="checkbox"/>
18	JJ71FL	11/27/06 13:20	93.7	<input checked="" type="checkbox"/>
19	Rinse	11/27/06 13:23	95.8	<input checked="" type="checkbox"/>
20	JJXAJB	11/27/06 13:26	97.9	<input checked="" type="checkbox"/>
21	MB CONTRO	11/27/06 13:29	103.8	<input checked="" type="checkbox"/>
22	JJ71FB	11/27/06 13:31	100.0	<input checked="" type="checkbox"/>
23	MB CONTRO	11/27/06 13:34	105.0	<input checked="" type="checkbox"/>
24	CCV 3	11/27/06 13:36	100.2	<input checked="" type="checkbox"/>
25	CCB 3	11/27/06 13:39	102.4	<input checked="" type="checkbox"/>
26	CCV 4	11/27/06 13:42	100.0	<input checked="" type="checkbox"/>
27	CCB 4	11/27/06 13:45	101.6	<input checked="" type="checkbox"/>
28	JHQ8V	11/27/06 13:48	100.9	<input checked="" type="checkbox"/>
29	JHQ8VP5	11/27/06 13:51	101.4	<input type="checkbox"/>
30	JHQ8VZ	11/27/06 13:54	98.7	<input checked="" type="checkbox"/>
31	JHQ88	11/27/06 13:56	98.5	<input checked="" type="checkbox"/>
32	JHQ9A	11/27/06 13:59	99.3	<input checked="" type="checkbox"/>
33	JHQ9F	11/27/06 14:02	97.4	<input checked="" type="checkbox"/>
34	JHQ9H	11/27/06 14:05	97.0	<input checked="" type="checkbox"/>
35	JHRAM	11/27/06 14:08	98.4	<input checked="" type="checkbox"/>
36	JHRAX	11/27/06 14:11	99.5	<input checked="" type="checkbox"/>
37	JHRA2	11/27/06 14:13	98.6	<input checked="" type="checkbox"/>
38	CCV 5	11/27/06 14:16	99.3	<input checked="" type="checkbox"/>
39	CCB 5	11/27/06 14:19	101.0	<input checked="" type="checkbox"/>
40	CCV 6	11/27/06 14:22	99.9	<input checked="" type="checkbox"/>
41	CCB 6	11/27/06 14:25	101.5	<input checked="" type="checkbox"/>
42	JHRA4	11/27/06 14:28	100.5	<input checked="" type="checkbox"/>
43	JJACE	11/27/06 14:31	100.7	<input checked="" type="checkbox"/>
44	JJACEP5	11/27/06 14:33	102.3	<input type="checkbox"/>
45	JJACEZ	11/27/06 14:36	99.2	<input checked="" type="checkbox"/>
46	JJACG	11/27/06 14:39	98.8	<input checked="" type="checkbox"/>

## STL Sacramento

## INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 11/28/06 15:14:25

File ID: 061127A1

Analyst: ioneseb

Germanium

#	Sample ID	Analyzed Date		Q
47	JJACH	11/27/06 14:42	98.7	<input checked="" type="checkbox"/>
48	JJACJ	11/27/06 14:45	99.5	<input checked="" type="checkbox"/>
49	JJACK	11/27/06 14:48	98.1	<input checked="" type="checkbox"/>
50	JJMHA	11/27/06 14:50	96.6	<input checked="" type="checkbox"/>
51	JJMHE	11/27/06 14:53	93.6	<input checked="" type="checkbox"/>
52	CCV 7	11/27/06 14:56	97.8	<input checked="" type="checkbox"/>
53	CCB 7	11/27/06 14:59	99.4	<input checked="" type="checkbox"/>
56	CCV 8	11/27/06 15:02	98.8	<input checked="" type="checkbox"/>
57	CCB 8	11/27/06 15:05	100.6	<input checked="" type="checkbox"/>
58	JJMHF	11/27/06 15:08	100.3	<input checked="" type="checkbox"/>
59	LLSTD 10X	11/27/06 15:10	105.7	<input checked="" type="checkbox"/>
60	LLSTD 5X	11/27/06 15:13	106.4	<input checked="" type="checkbox"/>
61	ICSA	11/27/06 15:15	78.6	<input checked="" type="checkbox"/>
62	ICSAB	11/27/06 15:18	78.5	<input checked="" type="checkbox"/>
63	Rinse	11/27/06 15:21	99.4	<input checked="" type="checkbox"/>
64	CCV 9	11/27/06 15:24	99.6	<input checked="" type="checkbox"/>
65	CCB 9	11/27/06 15:26	100.7	<input checked="" type="checkbox"/>
66	CCV 10	11/27/06 15:29	99.5	<input checked="" type="checkbox"/>
67	CCB 10	11/27/06 15:32	98.5	<input checked="" type="checkbox"/>
68	JG77M	11/27/06 15:35	100.5	<input checked="" type="checkbox"/>
69	JG77Q	11/27/06 15:38	101.4	<input checked="" type="checkbox"/>
70	JG77T	11/27/06 15:41	100.5	<input checked="" type="checkbox"/>
71	JG77V	11/27/06 15:43	102.3	<input checked="" type="checkbox"/>
72	JG77X	11/27/06 15:46	101.9	<input checked="" type="checkbox"/>
73	JG772	11/27/06 15:49	101.3	<input checked="" type="checkbox"/>
74	JH244	11/27/06 15:52	101.0	<input checked="" type="checkbox"/>
75	JH249	11/27/06 15:55	101.6	<input checked="" type="checkbox"/>
76	JH25C	11/27/06 15:58	102.7	<input checked="" type="checkbox"/>
77	JH25D	11/27/06 16:00	102.6	<input checked="" type="checkbox"/>
78	CCV 11	11/27/06 16:03	102.9	<input checked="" type="checkbox"/>
79	CCB 11	11/27/06 16:06	102.3	<input checked="" type="checkbox"/>
80	CCV 12	11/27/06 16:09	100.5	<input checked="" type="checkbox"/>
81	CCB 12	11/27/06 16:12	103.7	<input checked="" type="checkbox"/>
82	JJKH2B	11/27/06 16:15	101.5	<input checked="" type="checkbox"/>
83	JHA94	11/27/06 16:18	101.6	<input checked="" type="checkbox"/>
84	JHA94P5	11/27/06 16:21	104.6	<input type="checkbox"/>
85	JHA94Z	11/27/06 16:23	97.6	<input checked="" type="checkbox"/>
86	JHA95	11/27/06 16:26	98.3	<input checked="" type="checkbox"/>
87	JHA96	11/27/06 16:29	99.2	<input checked="" type="checkbox"/>
88	JHA97	11/27/06 16:32	99.7	<input checked="" type="checkbox"/>
89	JHA99	11/27/06 16:35	100.6	<input checked="" type="checkbox"/>
90	JHCAA	11/27/06 16:38	101.5	<input checked="" type="checkbox"/>
91	JHCAC	11/27/06 16:41	100.1	<input checked="" type="checkbox"/>
92	CCV 13	11/27/06 16:44	99.2	<input checked="" type="checkbox"/>
93	CCB 13	11/27/06 16:46	102.7	<input checked="" type="checkbox"/>

**STL SACRAMENTO - Elan 6000 ICPMS Perkin Elmer M01 Quantitative Method Report**

File Name: 6326122R.mth  
 File Path: C:\elandata\Method\6326122R.mth

**Timing Parameters**

Sweeps/Reading: 50  
 Readings/Replicate: 1  
 Number of Replicates: 3  
 Tuning File: default.tun  
 Optimization File: default.dac  
 QC Enabled: Yes  
 Settling Time: Normal

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Sc	44.956	Peak Hopping	1	14.0 ms	700 ms
Ca	43.956	Peak Hopping	1	14.0 ms	700 ms
Zn	67.925	Peak Hopping	1	14.0 ms	700 ms
As	74.922	Peak Hopping	1	20.0 ms	1000 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms
Zn	66.927	Peak Hopping	1	5.0 ms	250 ms
Zn	65.926	Peak Hopping	1	5.0 ms	250 ms
Ge	71.922	Peak Hopping	1	14.0 ms	700 ms
Pd	105.903	Peak Hopping	1	14.0 ms	700 ms
Kr	82.914	Peak Hopping	1	14.0 ms	700 ms

**Signal Processing**

Detector Mode: Dual  
 Measurement Units: Counts  
 AutoLens: On  
 Spectral Peak Processing: Average  
 Signal Profile Processing: Average  
 Blank Subtraction: After Internal Standard  
 Baseline Readings: 0  
 Smoothing: Yes, Factor 5

**Equations**

Analyte	Mass	Corrections
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78

**Calibration Information**

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
Sc	44.956	Linear Thru Zero	ug/L	ug/L				
Ca	43.956	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Zn	67.925	Linear Thru Zero	ug/L	ug/L	100			
As	74.922	Linear Thru Zero	ug/L	ug/L	100			
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L				
Zn	66.927	Linear Thru Zero	ug/L	ug/L	100			
Zn	65.926	Linear Thru Zero	ug/L	ug/L	100			
Ge	71.922	Linear Thru Zero	ug/L	ug/L				
Pd	105.903	Linear Thru Zero	ug/L	ug/L	100			
Kr	82.914	Linear Thru Zero	ug/L	ug/L	100			

Report Date/Time: Monday, November 27, 2006 17:12:38

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS, M01 – Methods 6020, 200.8

AIR TOX STANDARDS - 4 % HNO<sub>3</sub>, 0.5 % HCl

**Standards for run:**

Tuning standard: 2830-25D

Internal standard: 2830-26B

Blank, CCBs: 2531-34G

Standard 1, CCVs: 2830-24D

ICV: 2830-18D

ICSA: 2830-22B

ICSAB: 2830-25A

File Number: 061127A1

### Instrument Tuning Report - Elan 6000

File Name: default.tun

#### Sample Information

Sample Date/Time: Monday, November 27, 2006 11:57:51

Sample ID: TUNE BJONES

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	6.976	1567	0.731	2028	
Be	9.012	9.029	2070	0.721	2015	
Co	58.933	58.879	14281	0.740	1887	
In	114.904	114.929	27962	0.727	1849	
Ce	139.905	139.928	34035	0.732	1893	
Tl	204.975	204.979	49740	0.715	2111	
Pb	207.977	207.979	50476	0.704	2132	
U	238.050	238.077	57685	0.695	2293	

## Daily Performance Report - Elan 6000

Sample ID: DAILY BJONES  
 Sample Date/Time: Monday, November 27, 2006 12:05:26  
 Sample Description:  
 Sample File: C:\elandata\Sample\6326122X.sam  
 Method File: C:\elandata\Method\000-DAILY\_EPA.mth  
 Dataset File: C:\elandata\Dataset\061127A1\DAILY BJONES.003  
 Tuning File: c:\elandata\Tuning\default.tun  
 Optimization File: C:\elandata\Optimize\default.dac  
 Number of Replicates: 5  
 Dual Detector Mode: Dual

### Summary

Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24	77831.578	783.714	1.007
Rh	103	349785.858	2789.205	0.797
Pb	208	216848.307	2009.960	0.927
[> Ba	138	364279.591	3471.797	0.953
[ Ba++	69	0.022	0.001	2.355
[> Ce	140	443986.327	1856.872	0.418
[ CeO	156	0.031	0.002	6.862
Bkgd	220	2.571	0.639	24.845
Li	7	14113.964	33.501	0.237
Be	9	4884.383	100.042	2.048
Co	59	185237.513	2731.812	1.475
In	115	448563.492	3195.337	0.712
Tl	205	314344.341	4561.777	1.451

SOP No. SAC-MT-0001

BJones

Sample ID: Rinse

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 12:31:50

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\Rinse.004

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2091751.215	ug/L	0.000
[ 44 Ca			24436.749	ug/L	0.000
68 Zn			4050.281	ug/L	0.000
75 As			20827.163	ug/L	0.000
[> 72 Ge-1			1567691.740	ug/L	0.000
[ 67 Zn			2183.763	ug/L	0.000
66 Zn			1775.515	ug/L	0.000
[> 72 Ge			1567691.740	ug/L	0.000
106 Pd			7.000	ug/L	0.000
83 Kr			440.344	ug/L	0.000

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	
[ Zn	67	
Zn	66	
[> Ge	72	
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: Blank

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 12:34:59

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\Blank.005

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2215394.987	ug/L	
44 Ca			23597.780	ug/L	
68 Zn			5732.557	ug/L	
75 As			21004.722	ug/L	
72 Ge-1			1648032.719	ug/L	
67 Zn			2136.397	ug/L	
66 Zn			2620.438	ug/L	
72 Ge			1648032.719	ug/L	
106 Pd			10.667	ug/L	
83 Kr			438.678	ug/L	

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	
Zn	67	
Zn	66	
Ge	72	
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: Standard 1

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 12:38:01

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\Standard 1.006

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2181033.556	ug/L	2215394.987
44 Ca	5100.000000	0.769	2102346.615	ug/L	23597.780
68 Zn	100.000000	0.514	118991.998	ug/L	5732.557
75 As	100.000000	1.376	300672.457	ug/L	21004.722
72 Ge-1			1610765.234	ug/L	1648032.719
67 Zn	100.000000	2.431	11648.338	ug/L	2136.397
66 Zn	100.000000	1.071	58111.336	ug/L	2620.438
72 Ge			1610765.234	ug/L	1648032.719
106 Pd	100.000000	1.088	25244.366	ug/L	10.667
83 Kr	100.000000	73.956	461.679	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	
Zn	67	
Zn	66	
Ge	72	
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: ICV

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 12:40:48

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\ICV.007

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 3

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2165872.546	ug/L	2215394.987
44 Ca	883.345043	3.632	382691.058	ug/L	23597.780
68 Zn	83.066221	4.143	99645.217	ug/L	5732.557
75 As	81.052883	5.008	247212.651	ug/L	21004.722
72 Ge-1			1609605.763	ug/L	1648032.719
67 Zn	84.578095	4.517	10160.827	ug/L	2136.397
66 Zn	82.502934	5.192	48313.365	ug/L	2620.438
72 Ge			1609605.763	ug/L	1648032.719
106 Pd	81.232672	1.079	20508.675	ug/L	10.667
83 Kr	136.231962	55.370	470.013	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	97.668
Zn	67	
Zn	66	
Ge	72	97.668
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: ICB

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 12:43:40

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\ICB.008

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2187519.266	ug/L	2215394.987
44 Ca	0.387344	165.791	23416.965	ug/L	23597.780
68 Zn	-2.467240	8.185	2830.460	ug/L	5732.557
75 As	-0.269608	86.783	19935.977	ug/L	21004.722
72 Ge-1			1624272.210	ug/L	1648032.719
67 Zn	-1.490025	37.073	1961.616	ug/L	2136.397
66 Zn	-2.582987	5.080	1136.207	ug/L	2620.438
72 Ge			1624272.210	ug/L	1648032.719
106 Pd	-0.005284	263.391	9.333	ug/L	10.667
83 Kr	-76.811500	58.824	421.010	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	98.558
Zn	67	
Zn	66	
Ge	72	98.558
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: LLSTD 10X

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 12:46:36

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\LLSTD 10X.009

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 83

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2332809.759	ug/L	2215394.987
[ 44 Ca	51.057741	1.627	46946.611	ug/L	23597.780
68 Zn	3.789958	9.104	10592.081	ug/L	5732.557
75 As	0.126492	200.646	22343.028	ug/L	21004.722
[> 72 Ge-1			1723277.215	ug/L	1648032.719
[ 67 Zn	2.757351	11.060	2516.013	ug/L	2136.397
66 Zn	3.971874	10.241	5100.833	ug/L	2620.438
[> 72 Ge			1723277.215	ug/L	1648032.719
106 Pd	1.038311	5.040	272.671	ug/L	10.667
83 Kr	11.594163	645.539	441.344	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	104.566
[ Zn	67	
Zn	66	
[> Ge	72	104.566
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: LLSTD 5X

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 12:48:54

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\LLSTD 5X.010

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 84

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2325863.480	ug/L	2215394.987
[ 44 Ca	103.525783	0.815	69259.038	ug/L	23597.780
68 Zn	8.104509	4.342	15693.732	ug/L	5732.557
75 As	1.149728	32.743	25195.784	ug/L	21004.722
[> 72 Ge-1			1709147.240	ug/L	1648032.719
[ 67 Zn	7.460167	11.220	2972.748	ug/L	2136.397
66 Zn	8.232863	3.210	7569.490	ug/L	2620.438
[> 72 Ge			1709147.240	ug/L	1648032.719
106 Pd	2.000031	4.831	515.349	ug/L	10.667
83 Kr	-104.347582	88.421	414.677	ug/L	438.678

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	103.708
[ Zn	67	
Zn	66	
[> Ge	72	103.708
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: ICSA**

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 12:51:35

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\ICSA.011

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1802763.344	ug/L	2215394.987
44 Ca	103915.795115	1.346	33849729.289	ug/L	23597.780
68 Zn	0.253229	65.623	4703.265	ug/L	5732.557
75 As	0.457197	80.398	17415.426	ug/L	21004.722
72 Ge-1			1286211.066	ug/L	1648032.719
67 Zn	29.336347	3.505	3907.108	ug/L	2136.397
66 Zn	6.253025	5.137	4819.049	ug/L	2620.438
72 Ge			1286211.066	ug/L	1648032.719
106 Pd	1.714683	8.701	443.345	ug/L	10.667
83 Kr	1640.613432	5.776	816.038	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	78.045
Zn	67	
Zn	66	
Ge	72	78.045
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: ICSAB**

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 12:54:24

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\ICSAB.012

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1825376.504	ug/L	2215394.987
[ 44 Ca	104225.196779	0.625	34277723.266	ug/L	23597.780
68 Zn	94.665378	0.348	91054.989	ug/L	5732.557
75 As	103.447537	0.286	250203.487	ug/L	21004.722
[> 72 Ge-1			1298597.488	ug/L	1648032.719
[ 67 Zn	123.860465	1.408	11231.148	ug/L	2136.397
66 Zn	100.911385	0.845	47260.031	ug/L	2620.438
[> 72 Ge			1298597.488	ug/L	1648032.719
106 Pd	79.184369	0.274	19991.812	ug/L	10.667
83 Kr	1798.591465	6.370	852.375	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	78.797
[ Zn	67	
Zn	66	
[> Ge	72	78.797
Pd	106	
Kr	83	

**Sample ID: Rinse**

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 12:57:16

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\Rinse.013

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2222892.439	ug/L	2215394.987
44 Ca	-6.726523	17.044	20674.062	ug/L	23597.780
68 Zn	-2.714762	7.205	2567.378	ug/L	5732.557
75 As	0.075248	32.791	21105.648	ug/L	21004.722
72 Ge-1			1639111.712	ug/L	1648032.719
67 Zn	-2.465793	24.472	1884.902	ug/L	2136.397
66 Zn	-2.804431	7.976	1019.834	ug/L	2620.438
72 Ge			1639111.712	ug/L	1648032.719
106 Pd	-0.010568	150.000	8.000	ug/L	10.667
83 Kr	157.971163	51.564	475.013	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	99.459
Zn	67	
Zn	66	
Ge	72	99.459
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 1

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 13:00:09

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCV 1.014

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2197787.679	ug/L	2215394.987
44 Ca	5058.143758	1.408	2137226.915	ug/L	23597.780
68 Zn	99.119264	0.579	120935.348	ug/L	5732.557
75 As	100.297226	0.956	309035.900	ug/L	21004.722
72 Ge-1			1650983.314	ug/L	1648032.719
67 Zn	99.090331	0.262	11851.433	ug/L	2136.397
66 Zn	98.194993	0.518	58535.483	ug/L	2620.438
72 Ge			1650983.314	ug/L	1648032.719
106 Pd	95.628432	0.631	24141.258	ug/L	10.667
83 Kr	256.522392	46.551	497.681	ug/L	438.678

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	100.179
Zn	67	
Zn	66	
Ge	72	100.179
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 1

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 13:03:42

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCB 1.015

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2199169.385	ug/L	2215394.987
[ 44 Ca	-5.785286	32.449	21230.061	ug/L	23597.780
68 Zn	-2.920975	6.755	2350.985	ug/L	5732.557
75 As	0.351271	52.848	22073.455	ug/L	21004.722
[> 72 Ge-1			1652532.160	ug/L	1648032.719
[ 67 Zn	-2.285951	21.298	1917.255	ug/L	2136.397
66 Zn	-3.034989	6.729	898.798	ug/L	2620.438
[> 72 Ge			1652532.160	ug/L	1648032.719
106 Pd	-0.010568	112.500	8.000	ug/L	10.667
83 Kr	-40.579630	258.553	429.344	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	100.273
[ Zn	67	
Zn	66	
[> Ge	72	100.273
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 2

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 13:06:34

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCV 2.016

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2220597.147	ug/L	2215394.987
[ 44 Ca	5123.750467	0.065	2157206.012	ug/L	23597.780
68 Zn	100.048572	0.921	121586.963	ug/L	5732.557
75 As	99.985675	0.364	307072.479	ug/L	21004.722
[> 72 Ge-1			1645151.346	ug/L	1648032.719
[ 67 Zn	97.524455	1.554	11656.032	ug/L	2136.397
66 Zn	97.850890	0.568	58135.457	ug/L	2620.438
[> 72 Ge			1645151.346	ug/L	1648032.719
106 Pd	93.362073	1.376	23569.372	ug/L	10.667
83 Kr	271.015147	25.213	501.014	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	99.825
[ Zn	67	
Zn	66	
[> Ge	72	99.825
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 2

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 13:09:26

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCB 2.017

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2263037.403	ug/L	2215394.987
44 Ca	-7.396395	9.682	21196.984	ug/L	23597.780
68 Zn	-3.005917	7.790	2321.311	ug/L	5732.557
75 As	-0.153622	262.125	21241.999	ug/L	21004.722
72 Ge-1			1703003.773	ug/L	1648032.719
67 Zn	-3.302960	19.417	1873.228	ug/L	2136.397
66 Zn	-3.149217	6.516	858.453	ug/L	2620.438
72 Ge			1703003.773	ug/L	1648032.719
106 Pd	-0.015852	101.036	6.667	ug/L	10.667
83 Kr	146.376909	47.370	472.346	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	103.336
Zn	67	
Zn	66	
Ge	72	103.336
Pd	106	
Kr	83	

**Sample ID: JJXAJC**

Sample Description: G6K170000-133 LCS  
 Batch ID: 6321133  
 Sample Date/Time: Monday, November 27, 2006 13:12:16  
 Method File: C:\elandata\Method\6326122R.mth  
 Dataset File: C:\elandata\Dataset\061127A1\JJXAJC.018  
 Tuning File: c:\elandata\Tuning\default.tun  
 Optimization File: C:\elandata\Optimize\default.dac  
 Autosampler Position: 101  
 Number of Replicates: 3  
 Dual Detector Mode: Dual  
 Initial Sample Quantity (mg):  
 Sample Prep Volume (mL):  
 Aliquot Volume (mL):  
 Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2181093.958	ug/L	2215394.987
44 Ca	1128.454871	0.843	487424.851	ug/L	23597.780
68 Zn	181.489614	0.866	213247.676	ug/L	5732.557
75 As	176.820528	0.271	520425.192	ug/L	21004.722
72 Ge-1			1624886.556	ug/L	1648032.719
67 Zn	172.097700	0.258	18705.488	ug/L	2136.397
66 Zn	175.963505	0.894	101188.575	ug/L	2620.438
72 Ge			1624886.556	ug/L	1648032.719
106 Pd	177.212885	0.851	44728.034	ug/L	10.667
83 Kr	226.087331	14.175	490.680	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	98.596
Zn	67	
Zn	66	
Ge	72	98.596
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: JJXAJL

Sample Description: G6K170000-133 LCSD

Batch ID: 6321133

Sample Date/Time: Monday, November 27, 2006 13:15:04

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\JJXAJL.019

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 102

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2143183.884	ug/L	2215394.987
[ 44 Ca	1138.827950	0.542	484415.197	ug/L	23597.780
68 Zn	183.889140	0.508	212808.898	ug/L	5732.557
75 As	177.919463	0.559	515822.430	ug/L	21004.722
[> 72 Ge-1			1600927.034	ug/L	1648032.719
[ 67 Zn	174.924581	0.228	18698.441	ug/L	2136.397
66 Zn	177.558956	0.647	100583.150	ug/L	2620.438
[> 72 Ge			1600927.034	ug/L	1648032.719
106 Pd	177.698841	0.793	44850.658	ug/L	10.667
83 Kr	100.000135	144.485	461.679	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	97.142
[ Zn	67	
Zn	66	
[> Ge	72	97.142
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: JJXAJB

Sample Description: G6K170000-133 BLK

Batch ID: 6321133

Sample Date/Time: Monday, November 27, 2006 13:26:24

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\JJXAJB.023

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 20

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2197432.815	ug/L	2215394.987
[ 44 Ca	120.269138	0.299	72230.908	ug/L	23597.780
68 Zn	-1.328214	4.092	4104.296	ug/L	5732.557
75 As	0.003299	1297.989	20576.255	ug/L	21004.722
[> 72 Ge-1			1613698.523	ug/L	1648032.719
[ 67 Zn	-9.052503	4.981	1224.907	ug/L	2136.397
66 Zn	-1.379162	7.417	1798.184	ug/L	2620.438
[> 72 Ge			1613698.523	ug/L	1648032.719
106 Pd	-0.002642	450.000	10.000	ug/L	10.667
83 Kr	-75.362199	98.133	421.343	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	97.917
[ Zn	67	
Zn	66	
[> Ge	72	97.917
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: MB CONTROL**

Sample Description:

Batch ID: 6321133

Sample Date/Time: Monday, November 27, 2006 13:29:23

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\MB CONTROL.024

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 21

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2335731.726	ug/L	2215394.987
[ 44 Ca	279.545951	1.292	145522.926	ug/L	23597.780
68 Zn	-0.497897	34.513	5350.304	ug/L	5732.557
75 As	-0.529248	9.404	20225.494	ug/L	21004.722
[> 72 Ge-1			1710445.156	ug/L	1648032.719
[ 67 Zn	-8.536051	4.199	1350.625	ug/L	2136.397
66 Zn	-0.587947	26.262	2372.901	ug/L	2620.438
[> 72 Ge			1710445.156	ug/L	1648032.719
106 Pd	0.581239	11.757	157.335	ug/L	10.667
83 Kr	-114.492542	15.810	412.343	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	103.787
[ Zn	67	
Zn	66	
[> Ge	72	103.787
Pd	106	
Kr	83	

BJones

Sample ID: CCV 3

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 13:36:59

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCV 3.027

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2235743.056	ug/L	2215394.987
[ 44 Ca	5041.364370	1.879	2131310.261	ug/L	23597.780
68 Zn	96.555482	3.008	117989.199	ug/L	5732.557
75 As	96.782043	2.348	299063.403	ug/L	21004.722
[> 72 Ge-1			1652142.785	ug/L	1648032.719
[ 67 Zn	94.721211	3.303	11426.185	ug/L	2136.397
66 Zn	94.495350	2.983	56445.224	ug/L	2620.438
[> 72 Ge			1652142.785	ug/L	1648032.719
106 Pd	91.079941	0.375	22993.505	ug/L	10.667
83 Kr	204.348256	67.361	485.680	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	100.249
[ Zn	67	
Zn	66	
[> Ge	72	100.249
Pd	106	
Kr	83	

**BJones**

**Sample ID: CCB 3**

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 13:39:51

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCB 3.028

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2262591.935	ug/L	2215394.987
44 Ca	-5.867584	4.636	21659.109	ug/L	23597.780
68 Zn	-2.857079	2.154	2476.351	ug/L	5732.557
75 As	-0.151428	46.756	21065.440	ug/L	21004.722
72 Ge-1			1687662.410	ug/L	1648032.719
67 Zn	-2.693480	29.811	1918.256	ug/L	2136.397
66 Zn	-2.951157	1.345	965.816	ug/L	2620.438
72 Ge			1687662.410	ug/L	1648032.719
106 Pd	-0.017173	53.294	6.333	ug/L	10.667
83 Kr	194.203131	18.642	483.347	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	102.405
Zn	67	
Zn	66	
Ge	72	102.405
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 4

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 13:42:44

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCV 4.029

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2201464.677	ug/L	2215394.987
44 Ca	5067.657739	0.249	2138118.569	ug/L	23597.780
68 Zn	97.795462	0.218	119219.754	ug/L	5732.557
75 As	98.039260	1.157	302086.553	ug/L	21004.722
72 Ge-1			1648474.010	ug/L	1648032.719
67 Zn	95.013752	1.345	11433.881	ug/L	2136.397
66 Zn	95.319551	0.353	56812.803	ug/L	2620.438
72 Ge			1648474.010	ug/L	1648032.719
106 Pd	92.058735	0.870	23240.491	ug/L	10.667
83 Kr	266.667265	13.346	500.014	ug/L	438.678

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	100.027
Zn	67	
Zn	66	
Ge	72	100.027
Pd	106	
Kr	83	

BJones

Sample ID: CCB 4

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 13:45:36

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCB 4.030

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2219019.133	ug/L	2215394.987
44 Ca	-6.866294	9.526	21062.655	ug/L	23597.780
68 Zn	-2.535312	22.000	2835.809	ug/L	5732.557
75 As	-0.228396	30.407	20674.254	ug/L	21004.722
72 Ge-1			1674259.268	ug/L	1648032.719
67 Zn	-2.283557	26.477	1943.271	ug/L	2136.397
66 Zn	-2.554888	22.226	1186.903	ug/L	2620.438
72 Ge			1674259.268	ug/L	1648032.719
106 Pd	-0.009247	49.487	8.333	ug/L	10.667
83 Kr	15.941951	245.960	442.345	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	101.591
Zn	67	
Zn	66	
Ge	72	101.591
Pd	106	
Kr	83	

**Sample ID: JHRAM**

Sample Description: G6K020151-1  
 Batch ID: 6321133  
 Sample Date/Time: Monday, November 27, 2006 14:08:13  
 Method File: C:\elandata\Method\6326122R.mth  
 Dataset File: C:\elandata\Dataset\061127A1\JHRAM.038  
 Tuning File: c:\elandata\Tuning\default.tun  
 Optimization File: C:\elandata\Optimize\default.dac  
 Autosampler Position: 34  
 Number of Replicates: 3  
 Dual Detector Mode: Dual  
 Initial Sample Quantity (mg):  
 Sample Prep Volume (mL):  
 Aliquot Volume (mL):  
 Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2184680.352	ug/L	2215394.987
44 Ca	489.207611	1.392	223919.631	ug/L	23597.780
68 Zn	1.459482	16.938	7302.047	ug/L	5732.557
75 As	0.238254	74.466	21329.213	ug/L	21004.722
72 Ge-1			1621010.115	ug/L	1648032.719
67 Zn	-5.348064	14.286	1587.070	ug/L	2136.397
66 Zn	1.326169	5.259	3318.761	ug/L	2620.438
72 Ge			1621010.115	ug/L	1648032.719
106 Pd	0.618227	10.363	166.668	ug/L	10.667
83 Kr	-243.477308	11.890	382.675	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	98.360
Zn	67	
Zn	66	
Ge	72	98.360
Pd	106	
Kr	83	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020  
 SOP No. SAC-MT-0001  
 BJones

QUANTITATIVE ANALYSIS REPORT

Sample ID: JHRAX

Sample Description: G6K020151-2  
 Batch ID: 6321133  
 Sample Date/Time: Monday, November 27, 2006 14:11:04  
 Method File: C:\elandata\Method\6326122R.mth  
 Dataset File: C:\elandata\Dataset\061127A1\JHRAX.039  
 Tuning File: c:\elandata\Tuning\default.tun  
 Optimization File: C:\elandata\Optimize\default.dac  
 Autosampler Position: 35  
 Number of Replicates: 3  
 Dual Detector Mode: Dual  
 Initial Sample Quantity (mg):  
 Sample Prep Volume (mL):  
 Aliquot Volume (mL):  
 Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2213499.861	ug/L	2215394.987
44 Ca	549.744140	2.171	251521.769	ug/L	23597.780
68 Zn	1.819352	8.106	7799.141	ug/L	5732.557
75 As	0.119123	116.600	21227.554	ug/L	21004.722
72 Ge-1			1639025.184	ug/L	1648032.719
67 Zn	-5.168454	10.882	1622.088	ug/L	2136.397
66 Zn	1.854335	15.964	3653.136	ug/L	2620.438
72 Ge			1639025.184	ug/L	1648032.719
106 Pd	0.632758	14.093	170.335	ug/L	10.667
83 Kr	117.391304	35.972	465.679	ug/L	438.678

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	
Zn 68	
As 75	
Ge-1 72	99.453
Zn 67	
Zn 66	
Ge 72	99.453
Pd 106	
Kr 83	

**Sample ID: JHRA2**

Sample Description: G6K020151-3  
 Batch ID: 6321133  
 Sample Date/Time: Monday, November 27, 2006 14:13:55  
 Method File: C:\elandata\Method\6326122R.mth  
 Dataset File: C:\elandata\Dataset\061127A1\JHRA2.040  
 Tuning File: c:\elandata\Tuning\default.tun  
 Optimization File: C:\elandata\Optimize\default.dac  
 Autosampler Position: 36  
 Number of Replicates: 3  
 Dual Detector Mode: Dual  
 Initial Sample Quantity (mg):  
 Sample Prep Volume (mL):  
 Aliquot Volume (mL):  
 Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2194457.995	ug/L	2215394.987
44 Ca	660.722163	0.678	294934.964	ug/L	23597.780
68 Zn	4.730070	5.527	11058.987	ug/L	5732.557
75 As	0.406285	15.771	21851.921	ug/L	21004.722
72 Ge-1			1624462.571	ug/L	1648032.719
67 Zn	-2.181577	42.333	1895.242	ug/L	2136.397
66 Zn	4.586900	6.166	5152.580	ug/L	2620.438
72 Ge			1624462.571	ug/L	1648032.719
106 Pd	0.813737	6.083	216.003	ug/L	10.667
83 Kr	188.406062	46.327	482.013	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	98.570
Zn	67	
Zn	66	
Ge	72	98.570
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 5

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 14:16:47

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCV 5.041

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2203556.111	ug/L	2215394.987
44 Ca	5063.402145	2.290	2119688.532	ug/L	23597.780
68 Zn	97.965103	2.081	118482.178	ug/L	5732.557
75 As	96.553748	1.628	295522.974	ug/L	21004.722
72 Ge-1			1635832.312	ug/L	1648032.719
67 Zn	96.316801	1.353	11472.355	ug/L	2136.397
66 Zn	94.720539	1.636	56034.981	ug/L	2620.438
72 Ge			1635832.312	ug/L	1648032.719
106 Pd	89.967419	0.845	22712.775	ug/L	10.667
83 Kr	178.261040	19.563	479.680	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	99.260
Zn	67	
Zn	66	
Ge	72	99.260
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 5

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 14:19:40

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCB 5.042

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2238929.284	ug/L	2215394.987
[ 44 Ca	-4.498855	45.373	21939.484	ug/L	23597.780
68 Zn	-2.917755	5.212	2373.990	ug/L	5732.557
75 As	-0.292538	61.906	20374.554	ug/L	21004.722
[> 72 Ge-1			1665208.469	ug/L	1648032.719
[ 67 Zn	-2.406249	20.853	1920.590	ug/L	2136.397
66 Zn	-2.956332	4.810	950.812	ug/L	2620.438
[> 72 Ge			1665208.469	ug/L	1648032.719
106 Pd	-0.007926	144.338	8.667	ug/L	10.667
83 Kr	114.492993	150.708	465.012	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	101.042
[ Zn	67	
Zn	66	
[> Ge	72	101.042
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 6

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 14:22:32

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCV 6.043

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2192955.485	ug/L	2215394.987
[ 44 Ca	5022.512783	0.454	2117126.915	ug/L	23597.780
68 Zn	97.555802	0.893	118818.653	ug/L	5732.557
75 As	97.185336	0.743	299348.175	ug/L	21004.722
[> 72 Ge-1			1646795.372	ug/L	1648032.719
[ 67 Zn	94.172106	0.808	11340.541	ug/L	2136.397
66 Zn	94.791338	0.537	56455.398	ug/L	2620.438
[> 72 Ge			1646795.372	ug/L	1648032.719
106 Pd	90.338261	1.120	22806.352	ug/L	10.667
83 Kr	298.551647	40.785	507.348	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	99.925
[ Zn	67	
Zn	66	
[> Ge	72	99.925
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 6

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 14:25:24

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCB 6.044

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2220521.644	ug/L	2215394.987
[ 44 Ca	-4.059618	13.984	22230.205	ug/L	23597.780
68 Zn	-2.225593	13.947	3195.588	ug/L	5732.557
75 As	-0.134581	49.426	20927.202	ug/L	21004.722
[> 72 Ge-1			1672589.283	ug/L	1648032.719
[ 67 Zn	-1.385811	9.977	2030.660	ug/L	2136.397
66 Zn	-2.396681	9.492	1276.262	ug/L	2620.438
[> 72 Ge			1672589.283	ug/L	1648032.719
106 Pd	-0.017173	87.368	6.333	ug/L	10.667
83 Kr	231.884523	38.745	492.014	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	101.490
[ Zn	67	
Zn	66	
[> Ge	72	101.490
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: JHRA4

Sample Description: G6K020151-4

Batch ID: 6321133

Sample Date/Time: Monday, November 27, 2006 14:28:17

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\JHRA4.045

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 37

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2225557.696	ug/L	2215394.987
44 Ca	811.078018	1.489	363687.787	ug/L	23597.780
68 Zn	4.992720	8.639	11575.990	ug/L	5732.557
75 As	0.344810	58.544	22094.555	ug/L	21004.722
72 Ge-1			1656036.532	ug/L	1648032.719
67 Zn	-3.104156	9.039	1841.543	ug/L	2136.397
66 Zn	4.572590	4.609	5243.730	ug/L	2620.438
72 Ge			1656036.532	ug/L	1648032.719
106 Pd	0.838837	6.786	222.336	ug/L	10.667
83 Kr	265.217990	18.058	499.681	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	100.486
Zn	67	
Zn	66	
Ge	72	100.486
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 7

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 14:56:34

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCV 7.055

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2151798.780	ug/L	2215394.987
44 Ca	5038.922172	0.867	2078105.713	ug/L	23597.780
68 Zn	97.385158	0.779	116062.360	ug/L	5732.557
75 As	96.913928	0.818	292128.812	ug/L	21004.722
72 Ge-1			1611293.053	ug/L	1648032.719
67 Zn	96.803906	2.086	11348.577	ug/L	2136.397
66 Zn	95.680199	0.179	55733.300	ug/L	2620.438
72 Ge			1611293.053	ug/L	1648032.719
106 Pd	88.727787	0.808	22399.970	ug/L	10.667
83 Kr	198.551028	43.041	484.347	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	97.771
Zn	67	
Zn	66	
Ge	72	97.771
Pd	106	
Kr	83	

BJones

Sample ID: CCB 7

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 14:59:27

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCB 7.056

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2215742.301	ug/L	2215394.987
44 Ca	-5.766118	18.622	21053.972	ug/L	23597.780
68 Zn	-2.561013	4.839	2743.764	ug/L	5732.557
75 As	-0.382217	59.214	19778.259	ug/L	21004.722
72 Ge-1			1637320.588	ug/L	1648032.719
67 Zn	-1.588013	45.201	1968.287	ug/L	2136.397
66 Zn	-2.734973	4.733	1059.180	ug/L	2620.438
72 Ge			1637320.588	ug/L	1648032.719
106 Pd	-0.007926	125.831	8.667	ug/L	10.667
83 Kr	298.551642	39.998	507.348	ug/L	438.678

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	99.350
Zn	67	
Zn	66	
Ge	72	99.350
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 8

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 15:02:19

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCV 8.057

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2175869.148	ug/L	2215742.301
44 Ca	5104.270298	0.953	2088541.089	ug/L	21053.972
68 Zn	101.018325	0.469	117709.134	ug/L	2743.764
75 As	100.745128	0.884	295402.102	ug/L	19778.259
72 Ge-1			1618050.867	ug/L	1637320.588
67 Zn	97.614290	1.212	11169.259	ug/L	1968.287
66 Zn	99.794350	1.083	55850.334	ug/L	1059.180
72 Ge			1618050.867	ug/L	1637320.588
106 Pd	100.399988	0.741	22489.532	ug/L	8.667
83 Kr	-79.710419	215.874	525.683	ug/L	507.348

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	98.823
Zn	67	
Zn	66	
Ge	72	98.823
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 8

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 15:05:12

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCB 8.058

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2193499.107	ug/L	2215742.301
44 Ca	0.056438	1900.642	21195.983	ug/L	21053.972
68 Zn	0.404511	67.459	3227.599	ug/L	2743.764
75 As	0.087085	421.134	20132.784	ug/L	19778.259
72 Ge-1			1646535.789	ug/L	1637320.588
67 Zn	0.671768	69.722	2044.002	ug/L	1968.287
66 Zn	0.449540	76.524	1316.281	ug/L	1059.180
72 Ge			1646535.789	ug/L	1637320.588
106 Pd	-0.004466	152.752	7.667	ug/L	8.667
83 Kr	8.695734	851.951	505.348	ug/L	507.348

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	100.563
Zn	67	
Zn	66	
Ge	72	100.563
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: LLSTD 10X

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 15:10:58

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\LLSTD 10X.060

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 83

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (µg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2336751.017	ug/L	2215742.301
[ 44 Ca	51.086583	1.244	44390.652	ug/L	21053.972
68 Zn	6.183497	2.382	10429.881	ug/L	2743.764
75 As	0.406866	16.708	22097.756	ug/L	19778.259
[> 72 Ge-1			1730666.682	ug/L	1637320.588
[ 67 Zn	4.466698	14.774	2532.026	ug/L	1968.287
66 Zn	6.319827	1.650	4832.067	ug/L	1059.180
[> 72 Ge			1730666.682	ug/L	1637320.588
106 Pd	1.097169	8.246	254.337	ug/L	8.667
83 Kr	52.173982	154.635	495.347	ug/L	507.348

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	105.701
[ Zn	67	
Zn	66	
[> Ge	72	105.701
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: LLSTD 5X

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 15:13:17

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\LLSTD 5X.061

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 84

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2364913.650	ug/L	2215742.301
[ 44 Ca	101.391607	4.327	66593.122	ug/L	21053.972
68 Zn	9.941804	3.011	15099.686	ug/L	2743.764
75 As	1.011688	15.592	24025.097	ug/L	19778.259
[> 72 Ge-1			1742071.034	ug/L	1637320.588
[ 67 Zn	7.901841	10.950	2896.675	ug/L	1968.287
66 Zn	10.310987	1.680	7222.003	ug/L	1059.180
[> 72 Ge			1742071.034	ug/L	1637320.588
106 Pd	2.206278	0.843	502.681	ug/L	8.667
83 Kr	197.101074	61.488	462.012	ug/L	507.348

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	106.398
[ Zn	67	
Zn	66	
[> Ge	72	106.398
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: ICSA**

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 15:15:31

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\ICSA.062

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1830699.468	ug/L	2215742.301
[ 44 Ca	106401.280183	1.554	34315444.769	ug/L	21053.972
68 Zn	2.636941	5.988	4545.848	ug/L	2743.764
75 As	0.666571	40.249	17008.657	ug/L	19778.259
[> 72 Ge-1			1287589.725	ug/L	1637320.588
[ 67 Zn	29.709643	6.217	3781.288	ug/L	1968.287
66 Zn	8.580084	3.779	4582.693	ug/L	1059.180
[> 72 Ge			1287589.725	ug/L	1637320.588
106 Pd	1.877264		429.011	ug/L	8.667
83 Kr	-1494.233398	10.766	851.041	ug/L	507.348

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
Zn	68	
As	75	
[> Ge-1	72	78.640
[ Zn	67	
Zn	66	
[> Ge	72	78.640
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: ICSAB

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 15:18:20

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\ICSAB.063

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1824130.704	ug/L	2215742.301
44 Ca	106624.003301	0.837	34314477.551	ug/L	21053.972
68 Zn	97.838028	0.340	90591.552	ug/L	2743.764
75 As	106.048791	0.383	246091.690	ug/L	19778.259
72 Ge-1			1284780.244	ug/L	1637320.588
67 Zn	128.061510	1.190	11153.872	ug/L	1968.287
66 Zn	104.837158	0.985	46547.447	ug/L	1059.180
72 Ge			1284780.244	ug/L	1637320.588
106 Pd	86.540081	0.355	19386.119	ug/L	8.667
83 Kr	-1634.819041	10.909	883.378	ug/L	507.348

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	78.468
Zn	67	
Zn	66	
Ge	72	78.468
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

**Sample ID: Rinse**

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 15:21:12

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\Rinse.064

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2177424.510	ug/L	2215742.301
[ 44 Ca	-3.266566	16.549	19601.265	ug/L	21053.972
68 Zn	-0.783098	23.141	1831.527	ug/L	2743.764
75 As	0.390148	79.336	20742.887	ug/L	19778.259
[> 72 Ge-1			1627932.332	ug/L	1637320.588
[ 67 Zn	-1.308655	15.795	1832.537	ug/L	1968.287
66 Zn	-0.681928	30.163	676.408	ug/L	1059.180
[> 72 Ge			1627932.332	ug/L	1637320.588
106 Pd	-0.002732185925.878		8.667	ug/L	8.667
83 Kr	-92.753719	75.341	528.683	ug/L	507.348

**Internal Standard Recoveries**

Analyte Mass	Int Std % Recovery
Sc 45	
[ Ca 44	
Zn 68	
As 75	
[> Ge-1 72	99.427
[ Zn 67	
Zn 66	
[> Ge 72	99.427
Pd 106	
Kr 83	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCV 9**

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 15:24:05

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCV 9.065

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2212140.807	ug/L	2215742.301
44 Ca	5104.716424	1.084	2104983.795	ug/L	21053.972
68 Zn	99.446971	1.494	116815.335	ug/L	2743.764
75 As	100.690031	0.950	297536.554	ug/L	19778.259
72 Ge-1			1630545.469	ug/L	1637320.588
67 Zn	98.329854	1.157	11324.148	ug/L	1968.287
66 Zn	99.270848	0.476	55995.576	ug/L	1059.180
72 Ge			1630545.469	ug/L	1637320.588
106 Pd	104.176198	0.559	23335.075	ug/L	8.667
83 Kr	-73.913073	79.865	524.349	ug/L	507.348

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	99.586
Zn	67	
Zn	66	
Ge	72	99.586
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 9

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 15:26:57

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCB 9.066

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			2228177.651	ug/L	2215742.301
[ 44 Ca	-4.153139	13.122	19493.025	ug/L	21053.972
[ 68 Zn	-0.308684	56.387	2405.999	ug/L	2743.764
[ 75 As	0.411026	66.669	21068.956	ug/L	19778.259
[> 72 Ge-1			1649261.412	ug/L	1637320.588
[ 67 Zn	-0.751289	75.368	1910.251	ug/L	1968.287
[ 66 Zn	-0.208340	81.405	950.479	ug/L	1059.180
[> 72 Ge			1649261.412	ug/L	1637320.588
106 Pd	0.007443	91.652	10.333	ug/L	8.667
83 Kr	-28.985427	133.324	514.015	ug/L	507.348

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Sc	45	
[ Ca	44	
[ Zn	68	
[ As	75	
[> Ge-1	72	100.729
[ Zn	67	
[ Zn	66	
[> Ge	72	100.729
Pd	106	
Kr	83	

# **Sample Preparation Log**

**STL SACRAMENTO**  
**Metals - Air Toxics - Preparation Log**

Date: 17-Nov-06

Analyst: LoeraM

Matrix: AIR

Fraction: Filter

SOP:

Method: ICPMS

LOT ID		Workorder		Volume Received	Volume Removed	Initial Prep Volume	Final Prep Volume	Batch	Prep Factor
G6K170000	133	JJXAJB	2A	NA	NA	NA	100	6321133	1.2
G6K170000	133	JJXAJC	2A	NA	NA	NA	100	6321133	1.2
G6K170000	133	JJXAJL	2A	NA	NA	NA	100	6321133	1.2
G6K020146	1	JHQ8V	2A	9	0.75	0.75	100	6321133	1.2
G6K020146	2	JHQ88	2A	9	0.75	0.75	100	6321133	1.2
G6K020146	3	JHQ9A	2A	9	0.75	0.75	100	6321133	1.2
G6K020146	4	JHQ9F	2A	9	0.75	0.75	100	6321133	1.2
G6K020146	5	JHQ9H	2A	9	0.75	0.75	100	6321133	1.2
G6K020151	1	JHRAM	2A	9	0.75	0.75	100	6321133	1.2
G6K020151	2	JHRAX	2A	9	0.75	0.75	100	6321133	1.2
G6K020151	3	JHRA2	2A	9	0.75	0.75	100	6321133	1.2
G6K020151	4	JHRA4	2A	9	0.75	0.75	100	6321133	1.2

For 1" filter: factor = 9 (9/1)  
 For 0.75" filter factor = 12 (9/0.75)

STL Sacramento  
Metals Preparation Spiking  
Documentation Form



STL

Lot # G6K020151-(1-5) ; G6K020146-(1-5)

Batch Number: 6321133

EPA Analytical Method ID: 6020

Spiked Date: 11/17/06

MS Run #: \_\_\_\_\_

EPA Prep Method ID: 2A

Hot Plate Microwave ID: A

Analyst Initial/Date: mc 11/17/06

Witness Initial/Date: aw 11-17-06

Hot Plate Temp Initial: 90°

Final: \_\_\_\_\_  
Thermometer ID: \_\_\_\_\_

Correct Folder ID \_\_\_\_\_  
Witness: \_\_\_\_\_

Check If Used	Bottle Name	Elements	Stock Concentration (mg/L)	Tracking Number	LCS/DCS Volume Spiked	MS/SD Volume Spiked	Expiration Date
	ICP Part 1 5% HNO <sub>3</sub>	Ca, Mg Al, As, Ba, Se, Sn, Tl Fe, Mo, Ti Sb, Co, Pb, Mn, Ni, V, Zn	5,000 200 100 50				
	ICP Part 2 2% HNO <sub>3</sub>	Cu Cr Be, Cd Ag K, Na	25 20 5 5.0 5,000				
	Si H2O/Tc HFE	P, S B, Li, Sr Si	1,000 100 1,000				
✓	XCAL-45 5% HNO <sub>3</sub>	Al, K, Mg, Ca, Na, Fe, P, B, Si As, Be, Cd, Cr, Co, Cu, Pb, Mn, Mo, Ni, Se, U, V, Zn, Ba, Li, Sn, Sr, Ti Sb, Ag, Tl	50 10 2.5	1774-19 et 8-12	2.0 ml		10/07
	Misc. Elements						11/17/06 mc

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
✓	70% HNO <sub>3</sub>	Mallinckrodt	C37055		30% H <sub>2</sub> O <sub>2</sub>	Mallinckrodt	
	37% HCl	Mallinckrodt			49% HF	Fisher	11/17/06 mc

ICP matrix spike and LCS: For final volumes of 100ml, add 1ml from bottles ICP Part 1, ICP Part 2. Add 1ml of Silica (Si) when requested.  
ICPMS matrix spike and LCS: For final volumes of 100ml, add 2ml of XCAL-45.  
Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.

# AIR, 9056, Sulfate

## **General Anions by IC**

***Fluoride***  
***Chloride***  
***Nitrite***  
***Bromide***  
***Nitrate***  
***Phosphate***  
***Sulfate***

STL Sacramento

LEVEL 1&2 REVIEW CHECKLIST  
GENERAL CHEMISTRY

LAB NUMBERS: G6K170230; G6K080315; G6K020146 and G6K020151

ANALYSIS: 300.0 DATE: 11/21/06 ANALYST: OS

LEVEL 1 RUN REVIEW:

YES NO NA

- 1. Samples are properly preserved and verified
- 2. Run set-up meets standard criteria (Curve, ICV, ICB, REF...CCV,CCB..)
- 3. Calibration criteria met
- 4. Calibration verifications and second source reference are in control
- 5. Batch QC are in control (Blank, LCS, MSQC, LCS dup when necessary)
- 6. Calculations have been checked
- 7. QAS +/-or QAPP was consulted and followed for client specifics
- 8. Standard Tracking # noted on benchsheet +/-or runlog
- 9. Manual integration performed, documented and approved

___	___	✓
✓	___	___
✓	___	___
✓	___	___
✓	___	___
✓	___	___
✓	___	___
✓	___	___
✓	___	___

LEVEL 1 DATA REVIEW:

- 1. Benchsheet complete
- 2. QAS +/-or QAPP consulted and followed for client specifics for data entry
- 3. Data entered properly
- 4. Copy of prep sheet and prep checklist attached to run
- 5. Analyst observations, HTV's, Anomalies properly documented and attached to run.

✓	___	___
✓	___	___
✓	___	___
✓	___	___
✓	___	___

Completed By & Date: OS 11/27/06

LEVEL 2 REVIEW:

- 1. Level 1 checklist complete and verified
- 2. Deviations, Anomalies, Holding times checked and approved
- 3. Reprep/Reanalysis documented and chemist notified
- 4. Client specific criteria met
- 5. Data entry checked and released in Quantims
- 6. Indication on benchsheet on review and release (dated & signed)
- 7. Manual integration reviewed, approved, and properly documented

✓	___	___
✓	___	___
✓	___	___
✓	___	___
✓	___	___
✓	___	___
✓	___	___

Completed By & Date: JDR 11-27-06

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Sulfate in Filters

Lot:	G6K020146 and G6K020151		Analysis Date:		11/21/06			
Default RL =	0.040 mg/Filter		Batch:		6325554			
Sample ID	Work Order	Dilution for Fraction of Filter Analyzed*	Instrument Dilution Factor	Adjusted Dilution Factor	Sulfate (mg/L)	RL (mg/Filter)	Total Sulfate (mg/Filter)	% Rec
G6K020146-1	JHQ8V	12	1	12	1.187	0.4800	0.5698	
G6K020146-2	JHQ88	12	1	12	1.413	0.4800	0.6782	
G6K020146-3	JHQ9A	12	1	12	1.918	0.4800	0.9206	
G6K020146-4	JHQ9F	12	1	12	1.322	0.4800	0.6346	
G6K020146-5	JHQ9H	12	1	12	2.271	0.4800	1.0901	
G6K020151-1	JHRAM	12	1	12	1.259	0.4800	0.6043	
G6K020151-2	JHRAX	12	1	12	1.450	0.4800	0.6960	
G6K020151-3	JHRA2	12	1	12	1.691	0.4800	0.8117	
G6K020151-4	JHRA4	12	1	12	1.850	0.4800	0.8880	
MB		12	1	12	ND	0.4800		
LCS		12	1	12	9.744	0.4800	4.6771	97%
DSC		12	1	12	9.846	0.4800	4.7261	98%
* Dilution for Fraction of Filter Analyzed ----->			If entire Filter is used, enter 1					
			If only a portion of Filter is used, enter "Dilution" based on the fraction used					
			(i.e. if 1/12 of filter is used for analysis, enter 12; if half of filter is used, enter 2, etc)					
LCS True Value =	4.800	mg/Filter						
MS/SD True Value =	N/A							
Analyst:	DS		Date Entered:	11/27/06	Reviewed By:	DOR 11.27.06		

STL Sacramento

PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>
---------------------	----------------------	-----------	----------------------	---------------------	--------------------	--------------------	-----------------------------

METHOD: GK Sulfate (9056, Ion Chromatography)  
 QC BATCH #: 6325554 INITIALS: DATA ENTRY:  
 PREP DATE: 11/20/06 12:00 PREP \_\_\_\_\_ INITIALS \_\_\_\_\_  
 COMP DATE: 11/20/06 13:00 ANAL \_\_\_\_\_ DATE \_\_\_\_\_  
 USER: OUNIS

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
JHQ8V-1-AL	G-6K020146-001	XX S 82 GK YM	Y-D	_____	P-0786
JHQ88-1-AL	G-6K020146-002	XX S 82 GK YM	Y-D	_____	P-0787
JHQ9A-1-AL	G-6K020146-003	XX S 82 GK YM	Y-D	_____	P-0788
JHQ9F-1-AL	G-6K020146-004	XX S 82 GK YM	Y-D	_____	P-0789
JHQ9H-1-AL	G-6K020146-005	XX S 82 GK YM	Y-D	_____	000550
JHRAM-1-AL	G-6K020151-001	XX S 82 GK YM	Y-D	_____	P-0782
JHRAX-1-AL	G-6K020151-002	XX S 82 GK YM	Y-D	_____	P-0783
JHRA2-1-AL	G-6K020151-003	XX S 82 GK YM	Y-D	_____	P-0784
JHRA4-1-AL	G-6K020151-004	XX S 82 GK YM	Y-D	_____	000547
JJ7G8-1-AA	G-6K210000-554-B	XX S 82 GK YM		_____	INTRA-LAB BLANK
JJ7G8-1-AC	G-6K210000-554-C	XX S 82 GK YM		_____	INTRA-LAB CHECK
JJ7G8-1-AD	G-6K210000-554-L	XX S 82 GK YM		_____	INTRA-LAB CHECK

Control Limits

(85-115)

(85-115)

PDE115

Severn Trent Laboratories, Inc.  
Inorganics Batch Review  
QC Batch 6325554

Date 11/27/2006  
Time 22:09:59

Method Code: GK Sulfate (9056, Ion Chromatography)  
Analyst: Sonia Ouni

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JHQ8V-1-AL	0.570	mg	0.48	11/20-11/21/06	.00	N		0.57	0.48	12.00
JHQ88-1-AL	0.678	mg	0.48	11/20-11/21/06	.00	N		0.68	0.48	12.00
JHQ9A-1-AL	0.921	mg	0.48	11/20-11/21/06	.00	N		0.92	0.48	12.00
JHQ9F-1-AL	0.635	mg	0.48	11/20-11/22/06	.00	N		0.64	0.48	12.00
JHQ9H-1-AL	1.090	mg	0.48	11/20-11/22/06	.00	N		1.1	0.48	12.00
JHRAM-1-AL	0.604	mg	0.48	11/20-11/22/06	.00	N		0.60	0.48	12.00
JHRAX-1-AL	0.596	mg	0.48	11/20-11/22/06	.00	N		0.70	0.48	12.00
JHRA2-1-AL	0.812	mg	0.48	11/20-11/22/06	.00	N		0.81	0.48	12.00
JHRA4-1-AL	0.888	mg	0.48	11/20-11/22/06	.00	N		0.89	0.48	12.00
JJ7G8-1-AA	ND	mg	0.48	11/20-11/22/06	.00			ND	0.48	12.00

Notes:

LCS - LCSD

Work Order  
JJ7G8-1-AC

Notes:

Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	SPIKE	Pct.	Recovered DUP	RPD	Prep. - Anal.	Dil.
	4.800	4.677	4.726		97.43		98.45	1.04	11/20-11/22/06	1.00

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

Sequence: 061121A  
Operator: ounis

10/27/06  
11/27/06

E. Quant: 2867-wc-38-3

Printed: 11/27/2006 10:09:42 AM

Title: AS14A 013004

Datasource: D4N34341\_local

Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006

Timebase: ICS1000

#Samples: 77

Spike: 2627-wc-74-5:CL  
2627-wc-76-2:F  
2627-wc-79-4:PO4  
2627-wc-89-6:NO3

Created: 11/21/2006 8:44:35 AM by ounis  
Last Update: 11/22/2006 4:52:36 PM by ounis

ICC  
Method 300.0  
Page 1 of 6  
SONJA DUNN  
11/21/06

No.	Name	Dil.	Factor	Type	F [ppm] Fluoride	CL [ppm] Chloride	NO2 [ppm] Nitrite	Br [ppm] Bromide	NO3 [ppm] Nitrate	PO4 [ppm] Phosphate	SO4 [ppm] Sulfate
1	BLANK	1.0000		Standard	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	1R	1.0000		Standard	0.513	0.955	n.a.	0.540	n.a.	0.241	0.979
3	2R	1.0000		Standard	2.481	4.886	0.508	2.425	0.510	2.207	5.046
4	3R	1.0000		Standard	4.904	9.799	0.986	4.763	0.977	4.473	10.016
5	4R	1.0000		Standard	10.045	20.135	1.938	9.602	1.930	9.180	20.314
6	5R	1.0000		Standard	25.102	50.344	4.847	24.141	4.812	23.803	49.477
7	6R	1.0000		Standard	49.954	99.859	10.221	51.529	10.272	52.797	100.174
8	BLANK	1.0000		Unknown	n.a.	1.641	n.a.	n.a.	n.a.	n.a.	n.a.
9	ICV	1.0000		Unknown	30.237	71.561	6.495	27.269	6.953	28.290	74.442
10	ICB	1.0000		Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
11	JJ0LM 1X G6K170230-1	1.0000		Unknown	n.a.	39.577	n.a.	n.a.	n.a.	n.a.	10.134
12	JJ0LM S 1X G6K170230-1	1.0000		Unknown	5.018	48.215	n.a.	n.a.	n.a.	1.731	19.685
13	JJ0LM D 1X G6K170230-1	1.0000		Unknown	4.979	48.160	n.a.	n.a.	n.a.	1.729	19.535
14	JH8QQ 1X G6K080315-1	1.0000		Unknown	n.a.	3.325	n.a.	n.a.	1.069	n.a.	7.425
15	JH8R4 1X G6K080315-2	1.0000		Unknown	n.a.	2.853	n.a.	n.a.	n.a.	n.a.	12.674
16	JH8R6 1X G6K080315-3	1.0000		Unknown	n.a.	3.629	n.a.	n.a.	n.a.	n.a.	7.483
17	JH8R8 1X G6K080315-4	1.0000		Unknown	n.a.	1.494	n.a.	n.a.	2.695	n.a.	5.996
18	JH8V3 1X G6K080315-5	1.0000		Unknown	n.a.	1.371	n.a.	n.a.	0.865	n.a.	17.216
19	JH8V5 1X G6K080315-6	1.0000		Unknown	n.a.	6.057	n.a.	n.a.	n.a.	n.a.	5.798
20	JH8V7 1X G6K080315-7	1.0000		Unknown	n.a.	10.436	n.a.	n.a.	0.503	n.a.	10.475
21	CCV	1.0000		Unknown	24.510	47.286	4.328	22.252	4.564	23.409	49.289
22	CCB	1.0000		Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
23	JH8V8 1X G6K080315-8	1.0000		Unknown	n.a.	6.957	n.a.	n.a.	n.a.	n.a.	19.168
24	JH8V9 1X G6K080315-9	1.0000		Unknown	n.a.	8.498	n.a.	n.a.	n.a.	n.a.	8.105
25	JH8WD 1X G6K080315-10	1.0000		Unknown	n.a.	25.446	n.a.	n.a.	n.a.	n.a.	3.337
26	JH8WJ 1X G6K080315-11	1.0000		Unknown	0.960	43.862	n.a.	n.a.	n.a.	n.a.	22.129
27	JH8WM 1X G6K080315-12	1.0000		Unknown	1.925	54.930	n.a.	n.a.	n.a.	n.a.	110.596
28	JH8WX 1X G6K080315-13	1.0000		Unknown	n.a.	21.362	n.a.	n.a.	n.a.	n.a.	2.854
29	JH8R4 S 1X G6K080315-2	1.0000		Unknown	23.016	49.325	n.a.	n.a.	n.a.	8.184	60.245
30	JH8R4 D 1X G6K080315-2	1.0000		Unknown	23.240	49.350	n.a.	n.a.	n.a.	8.553	59.735
31	MB1 (G6K080315)	1.0000		Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
32	LCS1 (G6K080315)	1.0000		Unknown	23.725	45.012	4.166	21.536	4.559	21.628	48.055
33	CCV	1.0000		Unknown	24.480	47.087	4.239	22.017	4.554	23.369	49.328
34	CCB	1.0000		Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
35	JH8W2 1X G6K080315-14	1.0000		Unknown	n.a.	3.750	n.a.	n.a.	n.a.	n.a.	1.909
36	JH8XC 1X G6K080315-15	1.0000		Unknown	n.a.	28.092	n.a.	n.a.	n.a.	n.a.	2.956
37	JH8XD 1X G6K080315-16	1.0000		Unknown	n.a.	141.775	n.a.	n.a.	0.453	n.a.	11.449
38	JH8XE 1X G6K080315-17	1.0000		Unknown	n.a.	3.307	n.a.	n.a.	n.a.	n.a.	1.799
39	JH8XF 1X G6K080315-18	1.0000		Unknown	n.a.	1.798	n.a.	n.a.	n.a.	n.a.	12.324
40	JH8XG 1X G6K080315-19	1.0000		Unknown	n.a.	2.744	n.a.	n.a.	n.a.	n.a.	14.194

Method 300.0 ; reporting F, CL, PO4 and SO4

Sequence: 061121A  
Operator: ounis

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Printed: 11/27/2006 10:09:43 AM

Title: AS14A 013004

Datasource: D4N34341\_local  
Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006  
Timebase: ICS1000  
#Samples: 77

Created: 11/21/2006 8:44:35 AM by ounis  
Last Update: 11/22/2006 4:52:36 PM by ounis

No.	Name	Status	Program	Method
1	BLANK	Finished	AS14A PROG3	AS14A METHODHIGH 8PTCURVE
2	1R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
3	2R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
4	3R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
5	4R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
6	5R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
7	6R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
8	BLANK	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
9	ICV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
10	ICB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
11	JJ0LM 1X G6K170230-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
12	JJ0LM S 1X G6K170230-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
13	JJ0LM D 1X G6K170230-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
14	JH8QQ 1X G6K080315-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
15	JH8R4 1X G6K080315-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
16	JH8R6 1X G6K080315-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
17	JH8R8 1X G6K080315-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
18	JH8V3 1X G6K080315-5	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
19	JH8V5 1X G6K080315-6	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
20	JH8V7 1X G6K080315-7	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
21	CCV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
22	CCB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
23	JH8V8 1X G6K080315-8	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
24	JH8V9 1X G6K080315-9	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
25	JH8WD 1X G6K080315-10	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
26	JH8WJ 1X G6K080315-11	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
27	JH8WM 1X G6K080315-12	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
28	JH8WX 1X G6K080315-13	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
29	JH8R4 S 1X G6K080315-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
30	JH8R4 D 1X G6K080315-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
31	MB1 (G6K080315)	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
32	LCS1 (G6K080315)	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
33	CCV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
34	CCB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
35	JH8W2 1X G6K080315-14	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
36	JH8XC 1X G6K080315-15	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
37	JH8XD 1X G6K080315-16	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
38	JH8XE 1X G6K080315-17	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
39	JH8XF 1X G6K080315-18	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
40	JH8XG 1X G6K080315-19	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE

Sequence: 061121A  
Operator: ounis

Title: AS14A 013004

Datasource: D4N34341\_local  
Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006  
Timebase: ICS1000  
#Samples: 77

Created: 11/21/2006 8:44:35 AM by ounis  
Last Update: 11/22/2006 4:52:36 PM by ounis

No.	Name	Inj. Date/Time	Inj. Vol.	Sample ID	Comment	Weight
1	BLANK	10/27/2006 9:09:37 AM	100.0		OUNI SONIA	1.0000
2	1R	10/27/2006 9:32:06 AM	100.0	2724-WC-31-6	OUNI SONIA	1.0000
3	2R	10/27/2006 9:49:36 AM	100.0	2724-WC-31-9	OUNI SONIA	1.0000
4	3R	10/27/2006 10:07:07 AM	100.0	2724-WC-32-1	OUNI SONIA	1.0000
5	4R	10/27/2006 10:24:37 AM	100.0	2724-WC-32-4	OUNI SONIA	1.0000
6	5R	10/27/2006 10:42:07 AM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
7	6R	10/27/2006 10:59:37 AM	100.0	2724-WC-32-10	OUNI SONIA	1.0000
8	BLANK	11/21/2006 9:01:19 AM	100.0		OUNI SONIA	1.0000
9	ICV	11/21/2006 9:18:49 AM	100.0	2724-WC-12-5	OUNI SONIA	1.0000
10	ICB	11/21/2006 9:36:19 AM	100.0		OUNI SONIA	1.0000
11	JJ0LM 1X G6K170230-1	11/21/2006 9:53:49 AM	100.0		OUNI SONIA	1.0000
12	JJ0LM S 1X G6K170230-1	11/21/2006 10:11:20 AM	100.0		OUNI SONIA	1.0000
13	JJ0LM D 1X G6K170230-1	11/21/2006 10:28:50 AM	100.0		OUNI SONIA	1.0000
14	JH8QQ 1X G6K080315-1	11/21/2006 10:46:20 AM	100.0		OUNI SONIA	0.2020
15	JH8R4 1X G6K080315-2	11/21/2006 11:03:50 AM	100.0		OUNI SONIA	0.2053
16	JH8R6 1X G6K080315-3	11/21/2006 11:21:21 AM	100.0		OUNI SONIA	0.2030
17	JH8R8 1X G6K080315-4	11/21/2006 11:38:51 AM	100.0		OUNI SONIA	0.2020
18	JH8V3 1X G6K080315-5	11/21/2006 11:56:21 AM	100.0		OUNI SONIA	0.2075
19	JH8V5 1X G6K080315-6	11/21/2006 12:13:51 PM	100.0		OUNI SONIA	0.1988
20	JH8V7 1X G6K080315-7	11/21/2006 12:31:21 PM	100.0		OUNI SONIA	0.1985
21	CCV	11/21/2006 12:48:52 PM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
22	CCB	11/21/2006 1:06:22 PM	100.0		OUNI SONIA	1.0000
23	JH8V8 1X G6K080315-8	11/21/2006 1:23:52 PM	100.0		OUNI SONIA	0.2088
24	JH8V9 1X G6K080315-9	11/21/2006 1:41:23 PM	100.0		OUNI SONIA	0.2018
25	JH8WD 1X G6K080315-10	11/21/2006 1:58:53 PM	100.0		OUNI SONIA	0.2003
26	JH8WJ 1X G6K080315-11	11/21/2006 2:16:23 PM	100.0		OUNI SONIA	0.2018
27	JH8WM 1X G6K080315-12	11/21/2006 2:33:53 PM	100.0		OUNI SONIA	0.2060
28	JH8WX 1X G6K080315-13	11/21/2006 2:51:24 PM	100.0		OUNI SONIA	0.2073
29	JH8R4 S 1X G6K080315-2	11/21/2006 3:08:54 PM	100.0		OUNI SONIA	0.2053
30	JH8R4 D 1X G6K080315-2	11/21/2006 3:26:24 PM	100.0		OUNI SONIA	0.2053
31	MB1 (G6K080315)	11/21/2006 3:43:54 PM	100.0		OUNI SONIA	0.2000
32	LCS1 (G6K080315)	11/21/2006 4:01:25 PM	100.0	2724-WC-32-8	OUNI SONIA	0.2000
33	CCV	11/21/2006 4:18:55 PM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
34	CCB	11/21/2006 4:36:25 PM	100.0		OUNI SONIA	1.0000
35	JH8W2 1X G6K080315-14	11/21/2006 4:53:55 PM	100.0		OUNI SONIA	0.2043
36	JH8XC 1X G6K080315-15	11/21/2006 5:11:25 PM	100.0		OUNI SONIA	0.2005
37	JH8XD 1X G6K080315-16	11/21/2006 5:28:55 PM	100.0		OUNI SONIA	0.1995
38	JH8XE 1X G6K080315-17	11/21/2006 5:46:26 PM	100.0		OUNI SONIA	0.2005
39	JH8XF 1X G6K080315-18	11/21/2006 6:03:56 PM	100.0		OUNI SONIA	0.2080
40	JH8XG 1X G6K080315-19	11/21/2006 6:21:27 PM	100.0		OUNI SONIA	0.2085

Sequence: 061121A  
 Operator: ounis

Title: AS14A 013004

Datasource: D4N34341\_local  
 Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006  
 Timebase: ICS1000  
 #Samples: 77

Created: 11/21/2006 8:44:35 AM by ounis  
 Last Update: 11/22/2006 4:52:36 PM by ounis

No.	Name	Dil.	Factor	Type	F [ppm] Fluoride	CL [ppm] Chloride	NO2 [ppm] Nitrite	Br [ppm] Bromide	NO3 [ppm] Nitrate	PO4 [ppm] Phosphate	SO4 [ppm] Sulfate
41	JH8XH 1X G6K080315-20	F, CL, PO4	1.0000	Unknown	n.a.	9.050	n.a.	n.a.	4.308	n.a.	5.435
42	JH8XL 1X G6K080315-21		1.0000	Unknown	n.a.	1.901	n.a.	n.a.	n.a.	n.a.	21.462
43	JH8XM 1X G6K080315-22		1.0000	Unknown	n.a.	1.409	n.a.	n.a.	n.a.	n.a.	21.779
44	JH8XN 1X G6K080315-23		1.0000	Unknown	n.a.	3.814	n.a.	n.a.	0.610	n.a.	8.290
45	CCV		1.0000	Unknown	24.409	46.782	4.254	21.961	4.515	23.085	48.987
46	CCB		1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
47	JH8XQ 1X G6K080315-24		1.0000	Unknown	n.a.	1.853	n.a.	n.a.	n.a.	n.a.	12.705
48	JH8XT 1X G6K080315-25		1.0000	Unknown	n.a.	5.839	n.a.	n.a.	n.a.	n.a.	53.514
49	JH8X4 1X G6K080315-26		1.0000	Unknown	n.a.	20.815	n.a.	n.a.	0.715	n.a.	142.080
50	JH8XL S 1X G6K080315-21		1.0000	Unknown	22.697	46.727	n.a.	n.a.	n.a.	7.874	67.396
51	JH8XL D 1X G6K080315-21		1.0000	Unknown	22.797	46.911	n.a.	n.a.	n.a.	7.884	68.456
52	MB2 (G6K080315)		1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
53	LCS2 (G6K080315)		1.0000	Unknown	23.299	44.600	4.228	21.297	4.519	21.271	48.853
54	DU-IVC		1.0000	Unknown	30.087	73.823	n.a.	27.374	7.036	28.411	74.457
55	JHQ8V 1X G6K020146-1	SO4	1.0000	Unknown	n.a.	0.266	n.a.	n.a.	0.453	0.439	1.187
56	JHQ88 1X G6K020146-2		1.0000	Unknown	n.a.	0.251	n.a.	n.a.	0.422	0.451	1.413
57	CCV		1.0000	Unknown	24.510	46.855	4.296	22.030	4.513	23.056	48.998
58	CCB		1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
59	JHQ9A 1X G6K020146-3	SO4	1.0000	Unknown	n.a.	0.569	n.a.	n.a.	0.604	0.491	1.918
60	JHQ9F 1X G6K020146-4		1.0000	Unknown	n.a.	0.277	n.a.	n.a.	0.462	0.519	1.322
61	JHQ9H 1X G6K020146-5		1.0000	Unknown	0.110	0.623	n.a.	n.a.	0.652	0.456	2.271
62	JHRAM 1X G6K020151-1		1.0000	Unknown	n.a.	0.217	n.a.	n.a.	0.243	0.452	1.259
63	JHRAX 1X G6K020151-2		1.0000	Unknown	n.a.	0.211	n.a.	n.a.	0.254	0.492	1.450
64	JHRA2 1X G6K020151-3		1.0000	Unknown	n.a.	0.362	n.a.	n.a.	0.297	0.438	1.691
65	JHRA4 1X G6K020151-4		1.0000	Unknown	0.094	0.328	n.a.	n.a.	0.328	0.405	1.850
66	MB		1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	0.331	n.a.
67	LCS		1.0000	Unknown	3.943	8.918	0.857	4.271	0.914	4.530	9.744
68	DCS		1.0000	Unknown	4.103	8.950	0.856	4.243	0.913	4.532	9.846
69	CCV		1.0000	Unknown	24.512	46.998	4.330	22.164	4.502	23.020	49.130
70	CCB		1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
71	1R		1.0000	Unknown	0.395	0.886	n.a.	0.474	0.090	0.247	0.845
72	2R		1.0000	Unknown	2.038	4.539	0.448	2.214	0.479	2.211	4.940
73	3R		1.0000	Unknown	4.557	9.043	0.872	4.346	0.924	4.391	9.907
74	4R		1.0000	Unknown	8.335	18.607	1.723	8.803	1.811	8.848	19.571
75	5R		1.0000	Unknown	21.158	46.925	4.341	22.134	4.497	22.997	48.956
76	6R		1.0000	Unknown	42.345	92.982	8.978	46.411	9.414	50.006	97.758
77	SHUTDOWN		1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Sum				514.478	1596.208	72.911	393.798	98.191	446.430	1741.815

Sequence: 061121A  
Operator: ounis

Title: AS14A 013004

Datasource: D4N34341\_local  
Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006  
Timebase: ICS1000  
#Samples: 77

Created: 11/21/2006 8:44:35 AM by ounis  
Last Update: 11/22/2006 4:52:36 PM by ounis

No.	Name	Status	Program	Method
41	JH8XH 1X G6K080315-20	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
42	JH8XL 1X G6K080315-21	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
43	JH8XM 1X G6K080315-22	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
44	JH8XN 1X G6K080315-23	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
45	CCV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
46	CCB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
47	JH8XQ 1X G6K080315-24	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
48	JH8XT 1X G6K080315-25	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
49	JH8X4 1X G6K080315-26	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
50	JH8XL S 1X G6K080315-21	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
51	JH8XL D 1X G6K080315-21	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
52	MB2 (G6K080315)	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
53	LCS2 (G6K080315)	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
54	DU-IVC	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
55	JHQ8V 1X G6K020146-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
56	JHQ88 1X G6K020146-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
57	CCV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
58	CCB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
59	JHQ9A 1X G6K020146-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
60	JHQ9F 1X G6K020146-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
61	JHQ9H 1X G6K020146-5	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
62	JHRAM 1X G6K020151-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
63	JHRAX 1X G6K020151-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
64	JHRA2 1X G6K020151-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
65	JHRA4 1X G6K020151-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
66	MB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
67	LCS	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
68	DCS	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
69	CCV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
70	CCB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
71	1R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
72	2R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
73	3R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
74	4R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
75	5R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
76	6R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
77	SHUTDOWN	Finished	ICS1000 SHUTDOWN PROGRAM	AS14A METHODHIGH 8PTCURVE
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Sequence: 061121A  
Operator: ounis

Page 6 of 6  
Printed: 11/27/2006 10:09:43 AM

Title: AS14A 013004

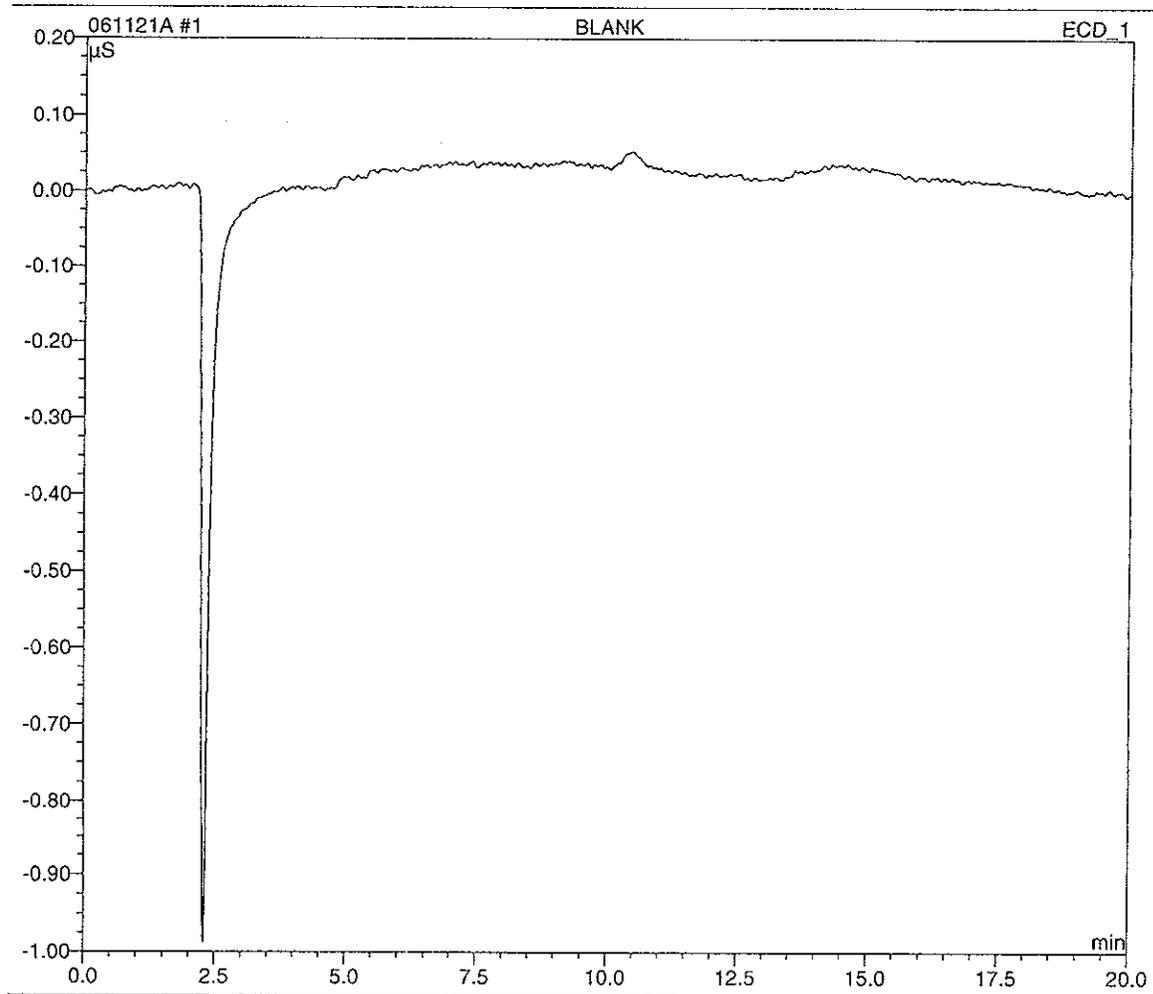
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Created: 11/21/2006 8:44:35 AM by ounis  
Last Update: 11/22/2006 4:52:36 PM by ounis

No.	Name	Inj. Date/Time	Inj. Vol.	Sample ID	Comment	Weight
41	JH8XH 1X G6K080315-20	11/21/2006 6:38:57 PM	100.0		OUNI SONIA	0.2035
42	JH8XL 1X G6K080315-21	11/21/2006 6:56:27 PM	100.0		OUNI SONIA	0.2085
43	JH8XM 1X G6K080315-22	11/21/2006 7:13:57 PM	100.0		OUNI SONIA	0.2055
44	JH8XN 1X G6K080315-23	11/21/2006 7:31:28 PM	100.0		OUNI SONIA	0.2013
45	CCV	11/21/2006 7:48:58 PM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
46	CCB	11/21/2006 8:06:28 PM	100.0		OUNI SONIA	1.0000
47	JH8XQ 1X G6K080315-24	11/21/2006 8:23:59 PM	100.0		OUNI SONIA	0.2048
48	JH8XT 1X G6K080315-25	11/21/2006 8:41:29 PM	100.0		OUNI SONIA	0.2018
49	JH8X4 1X G6K080315-26	11/21/2006 8:58:59 PM	100.0		OUNI SONIA	0.2018
50	JH8XL S 1X G6K080315-21	11/21/2006 9:16:29 PM	100.0		OUNI SONIA	0.2085
51	JH8XL D 1X G6K080315-21	11/21/2006 9:33:59 PM	100.0		OUNI SONIA	0.2085
52	MB2 (G6K080315)	11/21/2006 9:51:30 PM	100.0		OUNI SONIA	0.2000
53	LCS2 (G6K080315)	11/21/2006 10:09:00 PM	100.0	2724-WC-32-8	OUNI SONIA	0.2000
54	DU-IVC	11/21/2006 10:26:30 PM	100.0	2724-WC-12-5	OUNI SONIA	1.0000
55	JHQ8V 1X G6K020146-1	11/21/2006 10:44:00 PM	100.0		OUNI SONIA	1.0000
56	JHQ88 1X G6K020146-2	11/21/2006 11:01:31 PM	100.0		OUNI SONIA	1.0000
57	CCV	11/21/2006 11:19:01 PM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
58	CCB	11/21/2006 11:36:31 PM	100.0		OUNI SONIA	1.0000
59	JHQ9A 1X G6K020146-3	11/21/2006 11:54:02 PM	100.0		OUNI SONIA	1.0000
60	JHQ9F 1X G6K020146-4	11/22/2006 12:11:32 AM	100.0		OUNI SONIA	1.0000
61	JHQ9H 1X G6K020146-5	11/22/2006 12:29:02 AM	100.0		OUNI SONIA	1.0000
62	JHRAM 1X G6K020151-1	11/22/2006 12:46:32 AM	100.0		OUNI SONIA	1.0000
63	JHRAX 1X G6K020151-2	11/22/2006 1:04:03 AM	100.0		OUNI SONIA	1.0000
64	JHRA2 1X G6K020151-3	11/22/2006 1:21:33 AM	100.0		OUNI SONIA	1.0000
65	JHRA4 1X G6K020151-4	11/22/2006 1:39:04 AM	100.0		OUNI SONIA	1.0000
66	MB	11/22/2006 1:56:34 AM	100.0		OUNI SONIA	1.0000
67	LCS	11/22/2006 2:14:04 AM	100.0	2724-WC-32-8	OUNI SONIA	1.0000
68	DCS	11/22/2006 2:31:34 AM	100.0	2724-WC-32-8	OUNI SONIA	1.0000
69	CCV	11/22/2006 2:49:05 AM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
70	CCB	11/22/2006 3:06:35 AM	100.0		OUNI SONIA	1.0000
71	1R	11/22/2006 3:24:05 AM	100.0	2724-WC-31-6	OUNI SONIA	1.0000
72	2R	11/22/2006 3:41:36 AM	100.0	2724-WC-31-9	OUNI SONIA	1.0000
73	3R	11/22/2006 3:59:06 AM	100.0	2724-WC-32-1	OUNI SONIA	1.0000
74	4R	11/22/2006 4:16:37 AM	100.0	2724-WC-32-4	OUNI SONIA	1.0000
75	5R	11/22/2006 4:34:08 AM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
76	6R	11/22/2006 4:51:38 AM	100.0	2724-WC-32-10	OUNI SONIA	1.0000
77	SHUTDOWN	11/22/2006 5:09:08 AM	100.0		OUNI SONIA	1.0000
	Sum					

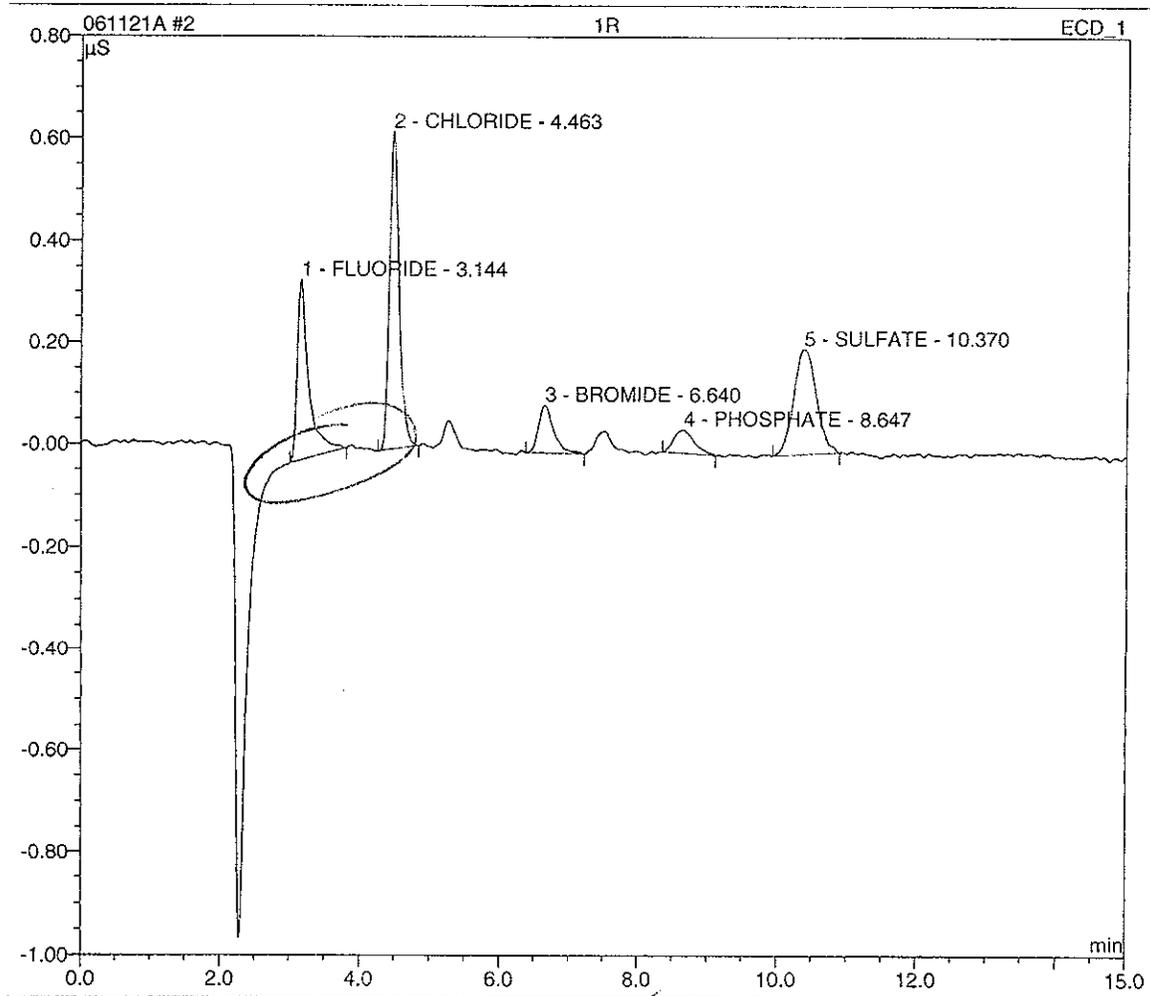
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Inj. Date/Time:	27.10.06 09:09	Run Time:	20.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
TOTAL:				0.00	0.00	0.00



Sample Name:	1R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	27.10.06 09:32	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.14	FLUORIDE	BMB	0.068	0.355	0.4847
2	4.46	CHLORIDE	BMB	0.100	0.622	0.9546
3	6.64	BROMIDE	BMB	0.024	0.094	0.5399
4	8.65	PHOSPHATE	BMB	0.016	0.047	0.2405
5	10.37	SULFATE	BMB	0.078	0.206	0.9793
TOTAL:				0.29	1.32	3.20



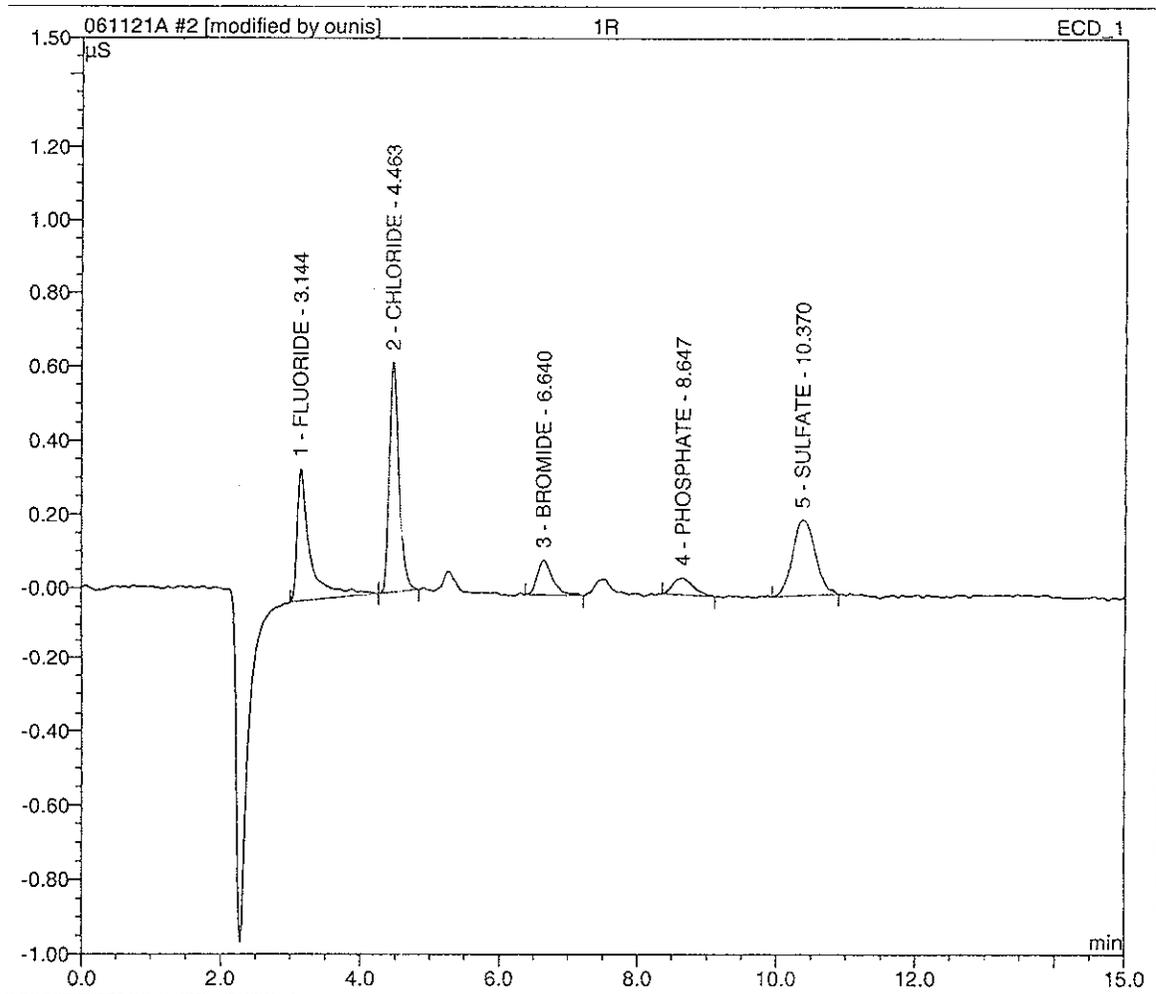
**BASELINE REDRAWN.**

See next page.

CS 11/27/06

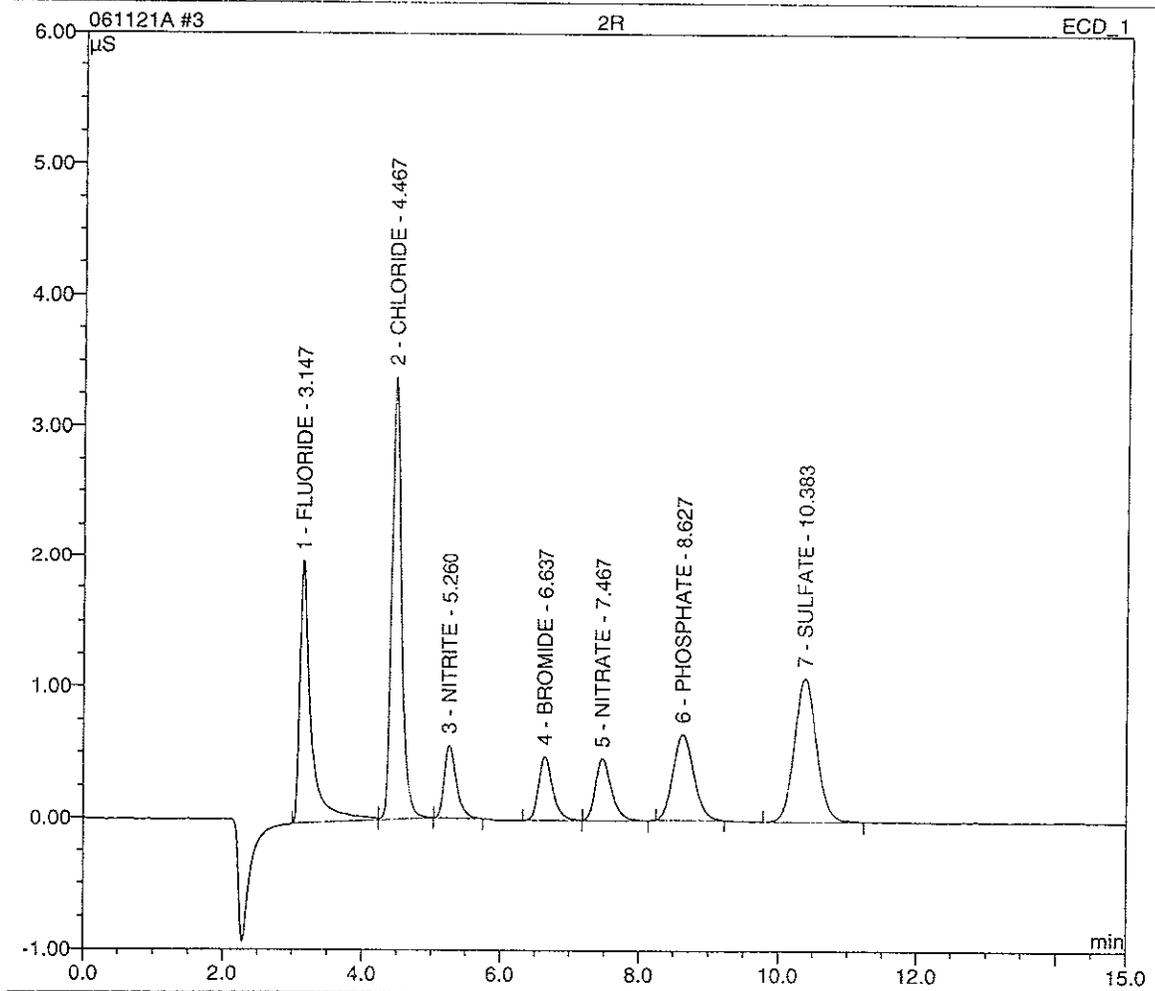
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Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	27.10.06 09:32	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.14	FLUORIDE	BMB*	0.078	0.357	0.5127
2	4.46	CHLORIDE	bMB*	0.100	0.622	0.9546
3	6.64	BROMIDE	BMB	0.024	0.094	0.5399
4	8.65	PHOSPHATE	BMB	0.016	0.047	0.2405
5	10.37	SULFATE	BMB	0.078	0.206	0.9793
TOTAL:				0.30	1.33	3.23



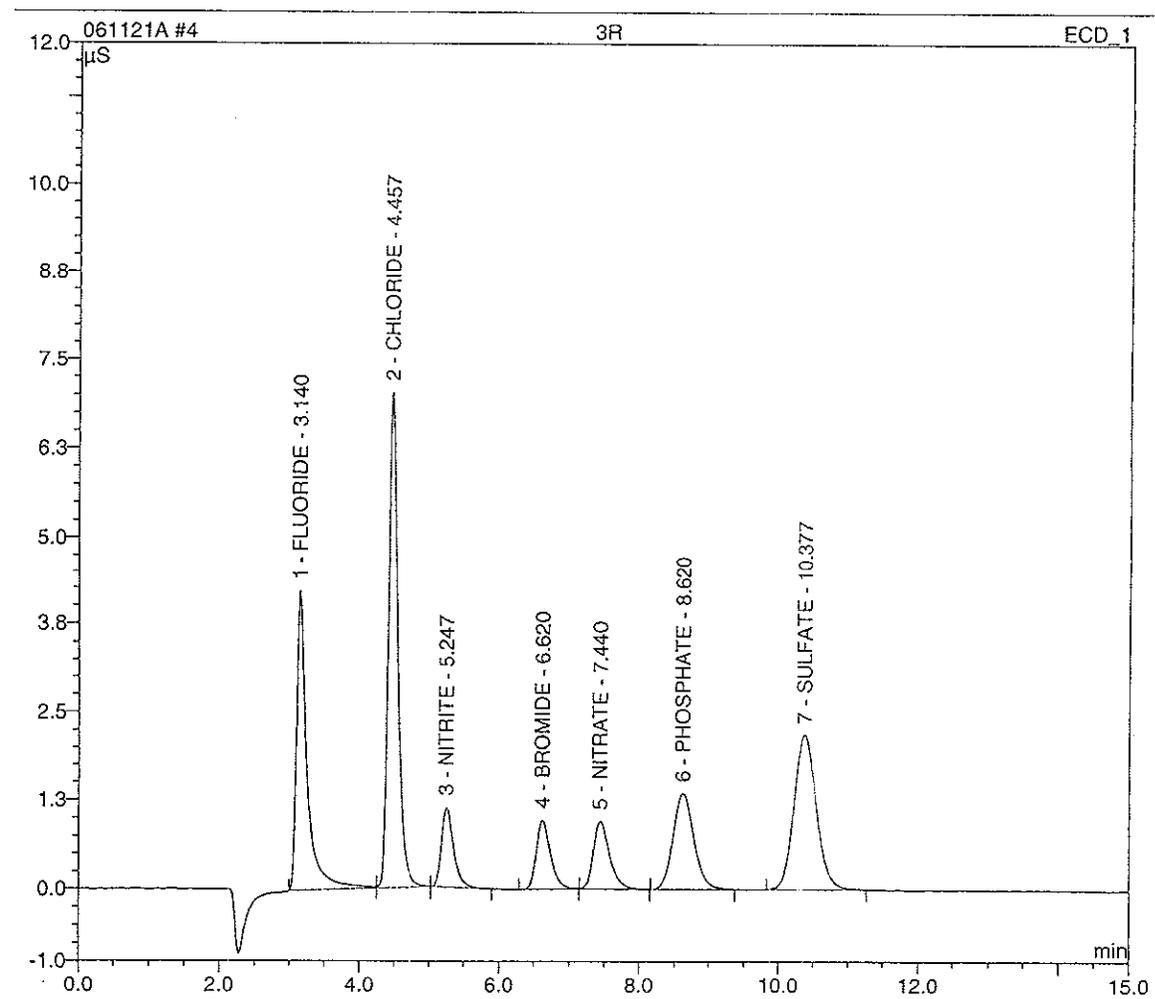
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Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	27.10.06 09:49	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.15	FLUORIDE	BM	0.375	1.996	2.4813
2	4.47	CHLORIDE	MB	0.555	3.384	4.8857
3	5.26	NITRITE	BMB	0.112	0.553	0.5082
4	6.64	BROMIDE	BMB	0.116	0.486	2.4253
5	7.47	NITRATE	BMB	0.128	0.471	0.5098
6	8.63	PHOSPHATE	BMB	0.227	0.656	2.2065
7	10.38	SULFATE	BMB	0.407	1.090	5.0464
TOTAL:				1.92	8.64	18.06



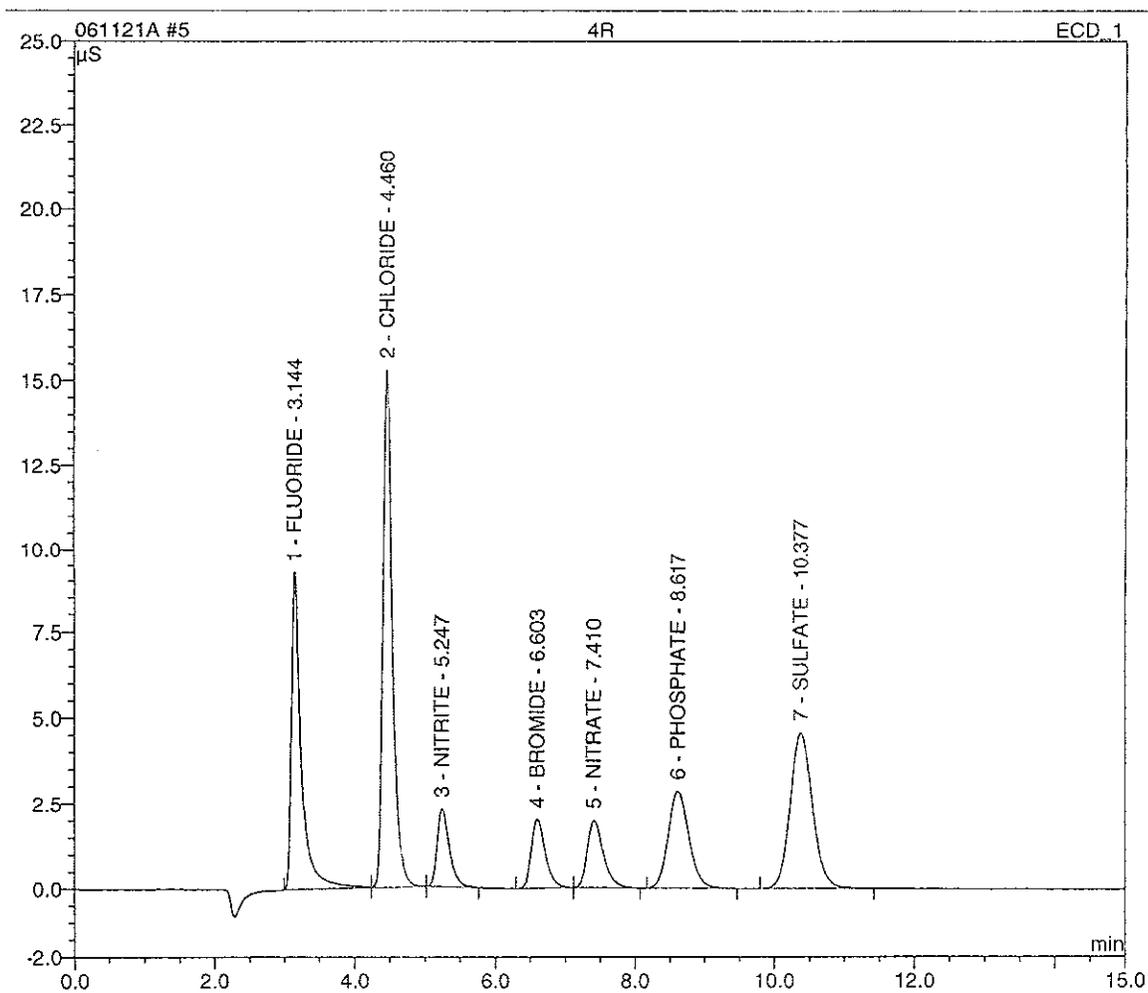
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Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	27.10.06 10:07	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.14	FLUORIDE	BM	0.743	4.231	4.9041
2	4.46	CHLORIDE	Mb	1.139	7.021	9.7986
3	5.25	NITRITE	bMB	0.226	1.123	0.9863
4	6.62	BROMIDE	BMB	0.229	0.977	4.7628
5	7.44	NITRATE	BMB	0.257	0.952	0.9766
6	8.62	PHOSPHATE	BMB	0.472	1.349	4.4733
7	10.38	SULFATE	BMB	0.816	2.197	10.0159
TOTAL:				3.88	17.85	35.92



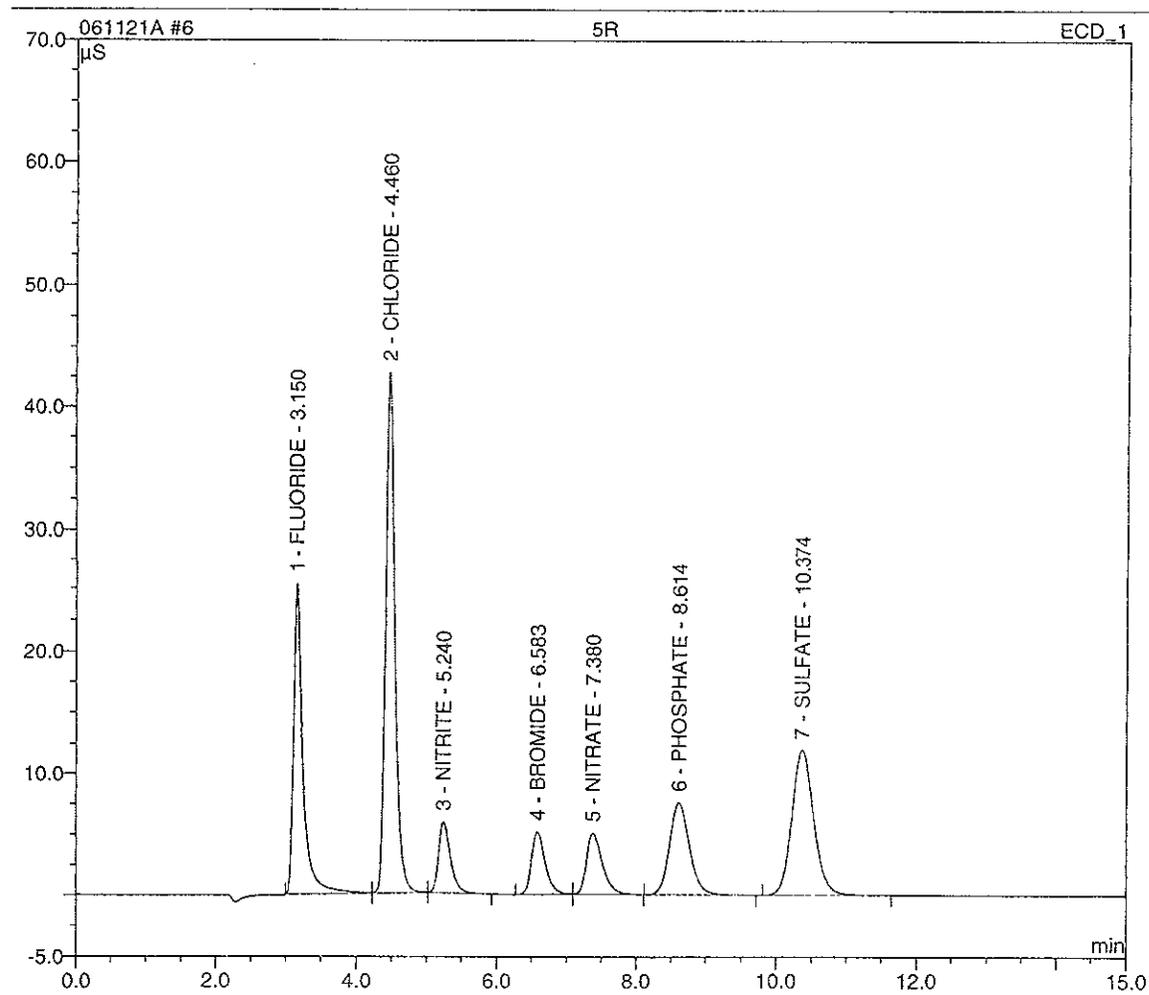
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Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	27.10.06 10:24	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.14	FLUORIDE	BM	1.537	9.293	10.0446
2	4.46	CHLORIDE	Mb	2.425	15.261	20.1355
3	5.25	NITRITE	bMB	0.452	2.273	1.9375
4	6.60	BROMIDE	BMB	0.464	2.007	9.6020
5	7.41	NITRATE	BMB	0.522	1.958	1.9299
6	8.62	PHOSPHATE	BMB	0.978	2.837	9.1801
7	10.38	SULFATE	BMB	1.685	4.558	20.3143
TOTAL:				8.06	38.19	73.14



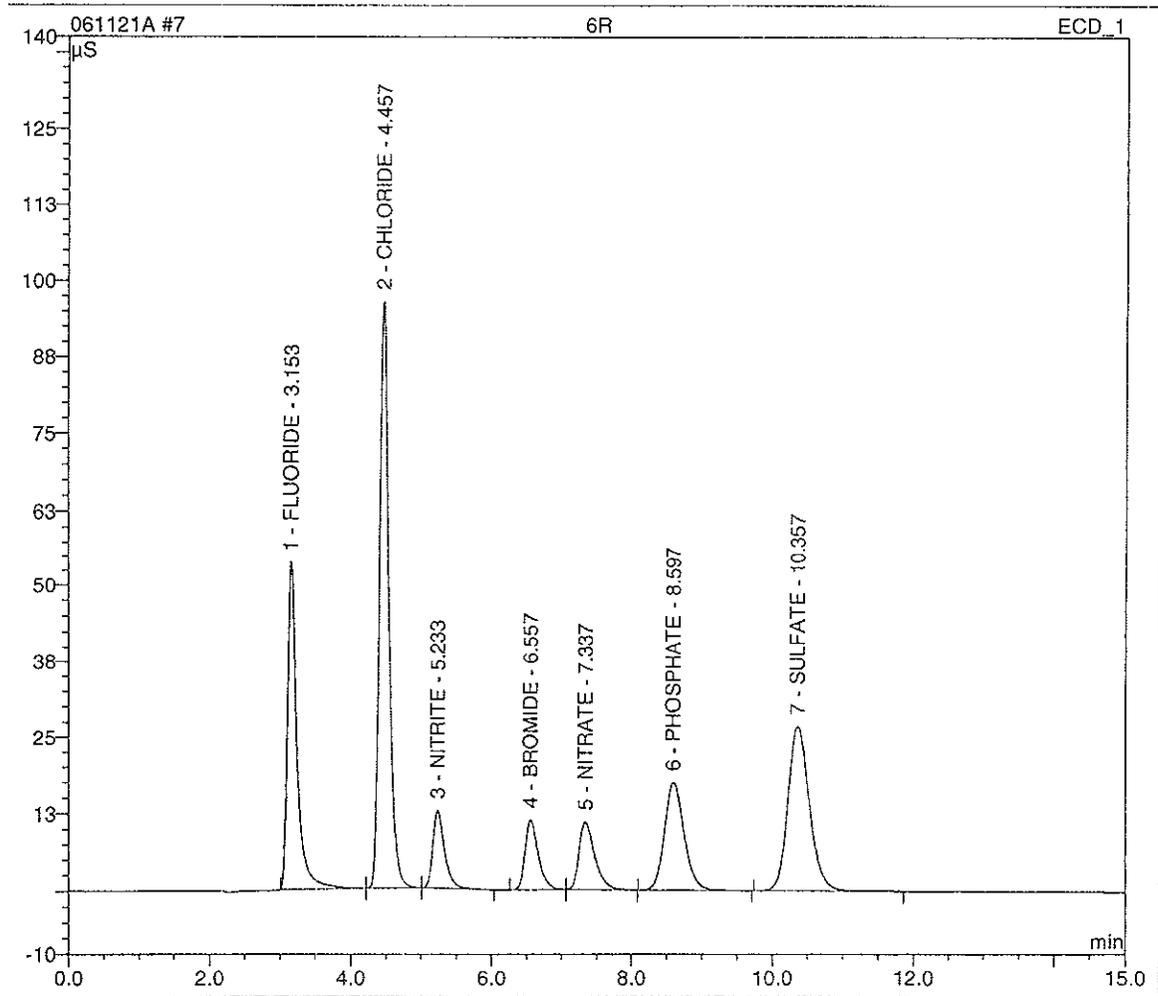
Sample Name:	5R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	27.10.06 10:42	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.15	FLUORIDE	BM	3.956	25.306	25.1022
2	4.46	CHLORIDE	Mb	6.629	42.651	50.3445
3	5.24	NITRITE	bMB	1.145	5.818	4.8467
4	6.58	BROMIDE	BMb	1.171	5.144	24.1410
5	7.38	NITRATE	bMB	1.322	5.013	4.8117
6	8.61	PHOSPHATE	BMB	2.553	7.564	23.8027
7	10.37	SULFATE	BMB	4.314	11.956	49.4767
TOTAL:				21.09	103.45	182.53



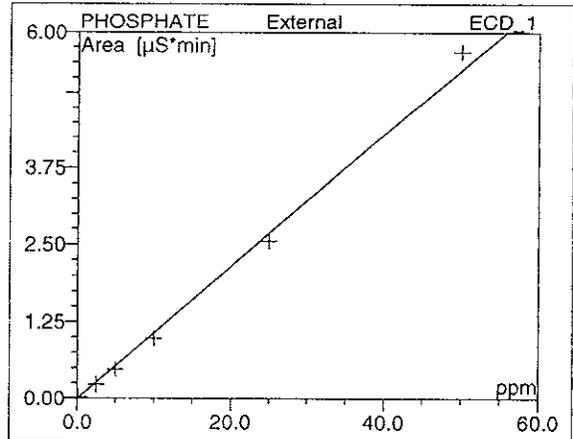
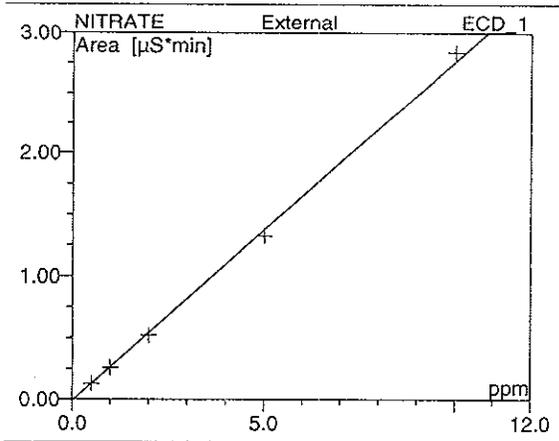
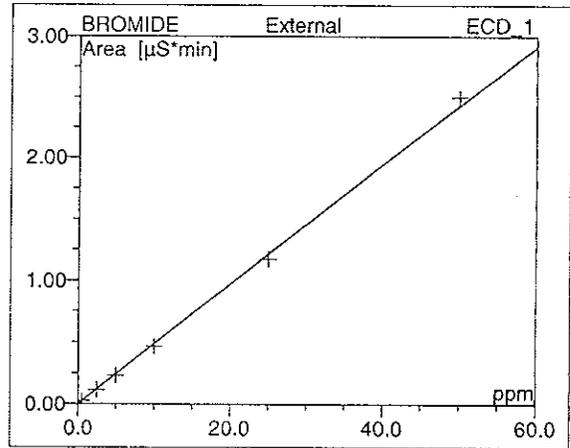
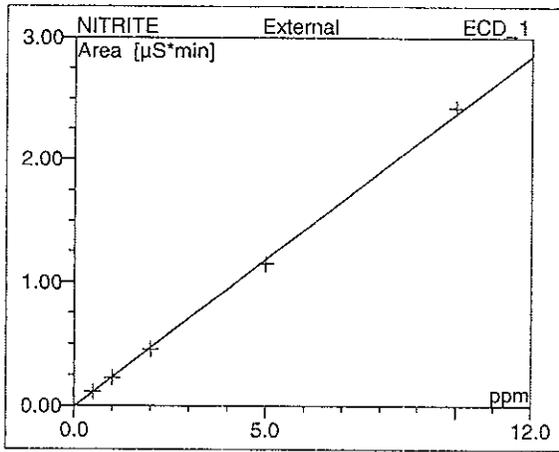
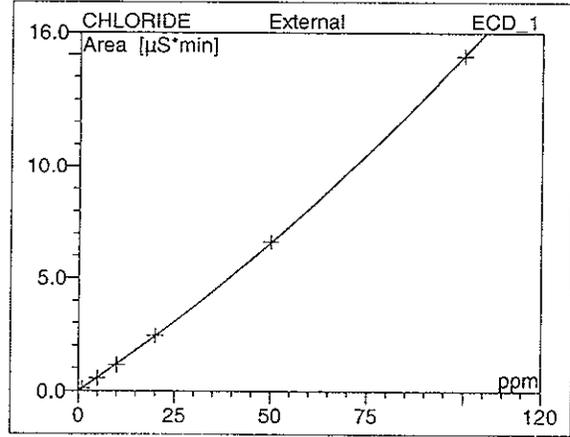
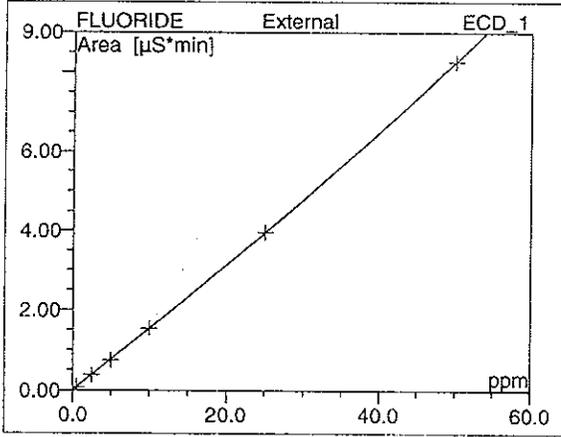
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Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	27.10.06 10:59	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.15	FLUORIDE	BM	8.257	53.723	49.9544
2	4.46	CHLORIDE	Mb	14.954	96.128	99.8595
3	5.23	NITRITE	bMB	2.424	12.524	10.2213
4	6.56	BROMIDE	BMB	2.501	11.314	51.5290
5	7.34	NITRATE	bMB	2.838	10.948	10.2721
6	8.60	PHOSPHATE	BMB	5.674	17.426	52.7968
7	10.36	SULFATE	BMB	9.474	26.829	100.1743
TOTAL:				46.12	228.89	374.81

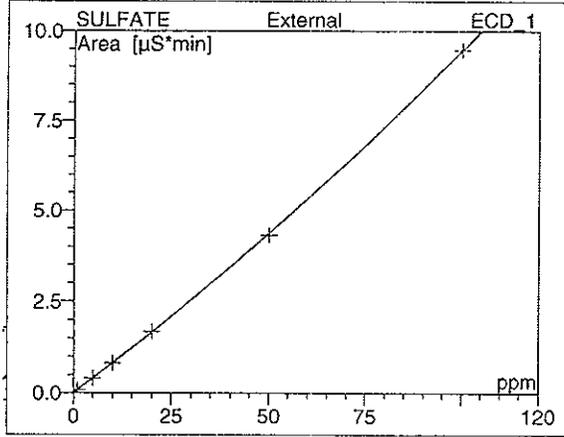


Calibration Batch Report

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Program: AS14A PROGRAM	Operator: SACPC205ICS1000
Inj. Date/Time: 10/27/06 10:59	Run Time: 15.00



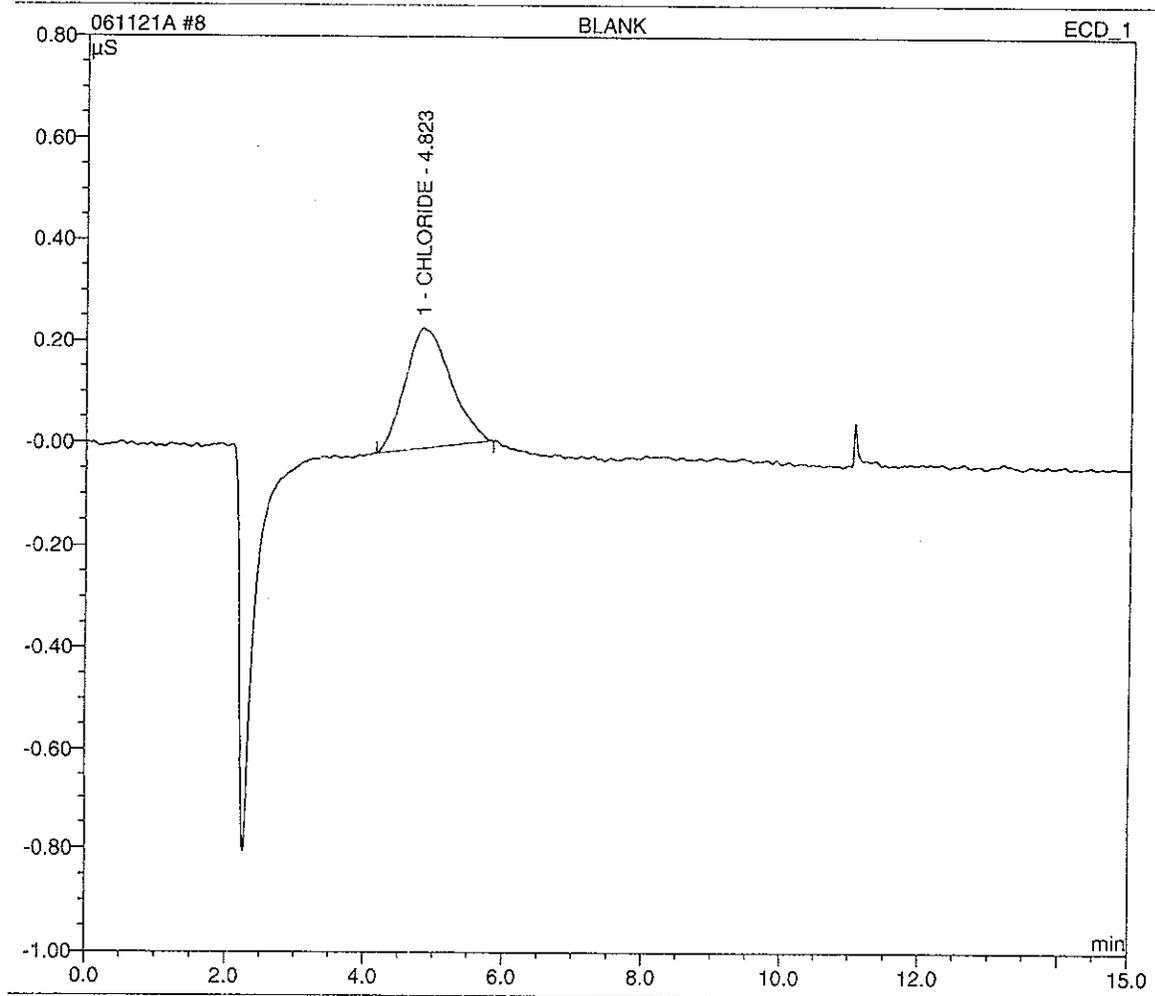
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Program:	AS14A PROGRAM	Operator:	n.a.
Inj. Date/Time:	10/27/06 10:59	Run Time:	15.00



No.	Ret. Time min	Peak Name	Cal. Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr. Coeff. %
1	3.15	FLUORIDE	X0QOff	6	0.001	0.150	0.000	99.947
2	4.46	CHLORIDE	X0QOff	6	-0.009	0.114	0.000	99.657
3	5.23	NITRITE	X0LOff	5	-0.009	0.238	0.000	99.953
4	6.56	BROMIDE	X0LOff	6	-0.002	0.049	0.000	99.933
5	7.34	NITRATE	X0LOff	5	-0.014	0.278	0.000	99.931
6	8.60	PHOSPHATE	X0LOff	6	-0.010	0.108	0.000	99.783
7	10.36	SULFATE	X0QOff	6	0.000	0.080	0.000	99.857
AVERAGE:					-0.0061	0.1450	0.0001	99.8658

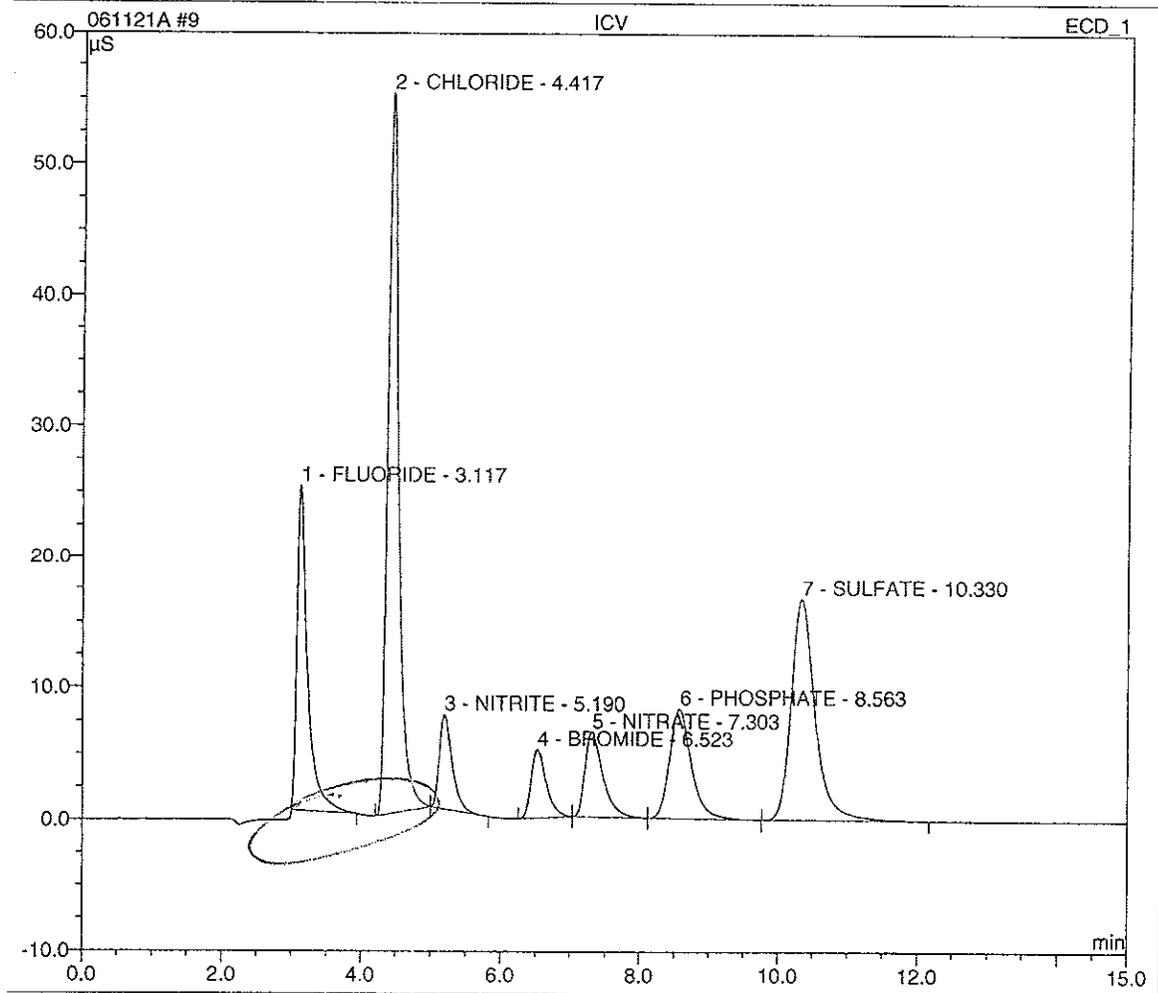
Sample Name:	BLANK	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 09:01	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
1	4.82	CHLORIDE	BMB	0.179	0.237	1.6408
TOTAL:				0.18	0.24	1.64



Sample Name:	ICV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 09:18	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.12	FLUORIDE	BMB	4.347	24.835	27.4558
2	4.42	CHLORIDE	BMb	9.977	54.936	71.5612
3	5.19	NITRITE	bMB	1.537	7.182	6.4951
4	6.52	BROMIDE	BMb	1.323	5.227	27.2687
5	7.30	NITRATE	bMB	1.916	6.466	6.9534
6	8.56	PHOSPHATE	BMB	3.036	8.293	28.2899
7	10.33	SULFATE	BMB	6.761	16.718	74.4422
TOTAL:				28.90	123.66	242.47



BASELINE REDRAWN.  
See next page.

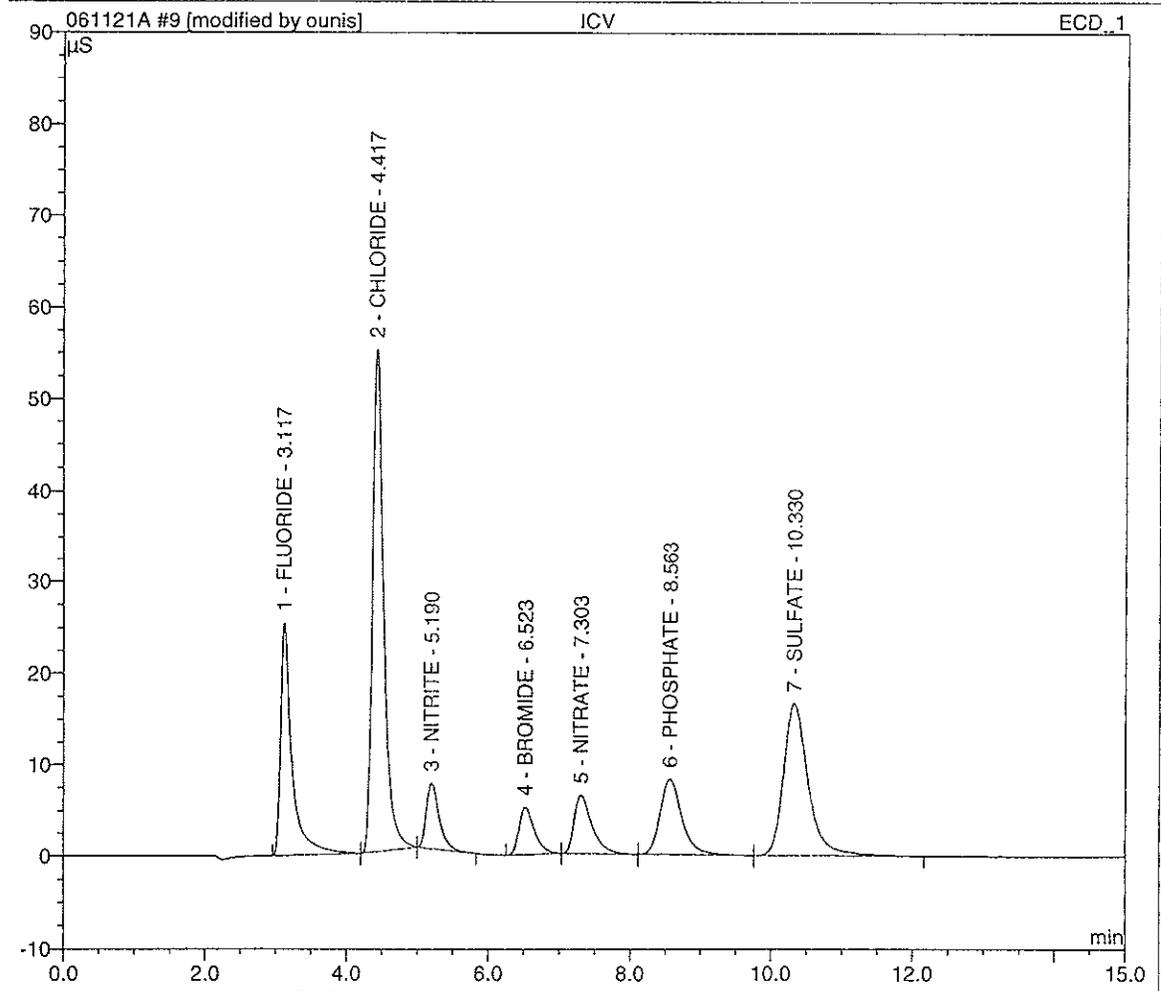
03 11/27/06

SOIL  
11-27-06

Sample Name:	ICV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 09:18	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.12	FLUORIDE	BMB*	4.813	25.463	30.2375
2	4.42	CHLORIDE	bMb*	9.977	54.936	71.5612
3	5.19	NITRITE	bMB	1.537	7.182	6.4951
4	6.52	BROMIDE	BMB	1.323	5.227	27.2687
5	7.30	NITRATE	bMB	1.916	6.466	6.9534
6	8.56	PHOSPHATE	BMB	3.036	8.293	28.2899
7	10.33	SULFATE	BMB	6.761	16.718	74.4422
TOTAL:				29.36	124.29	245.25

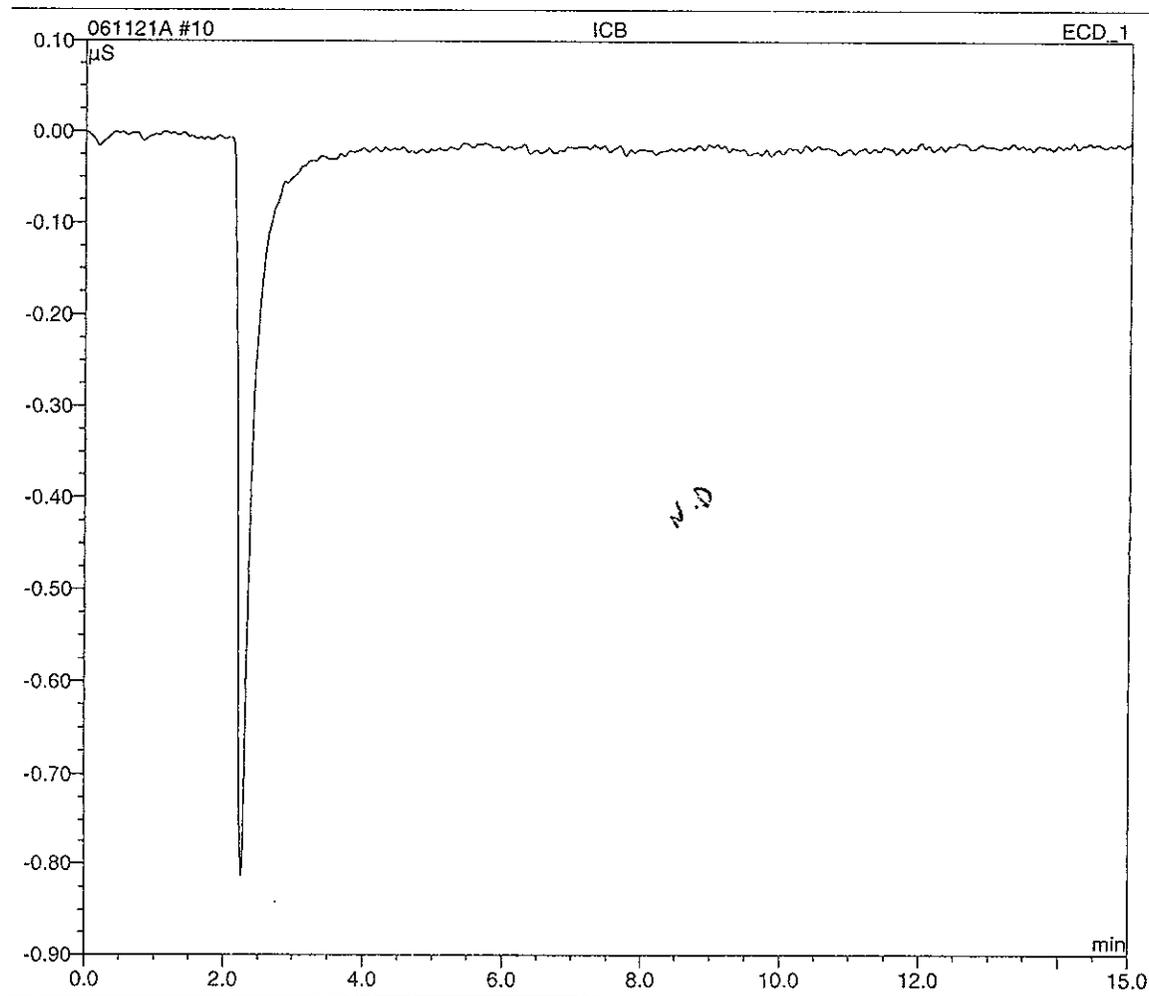
7.5  $\mu\text{M}$   
30  
75  
30  
75



✓ 502  
11.27.06

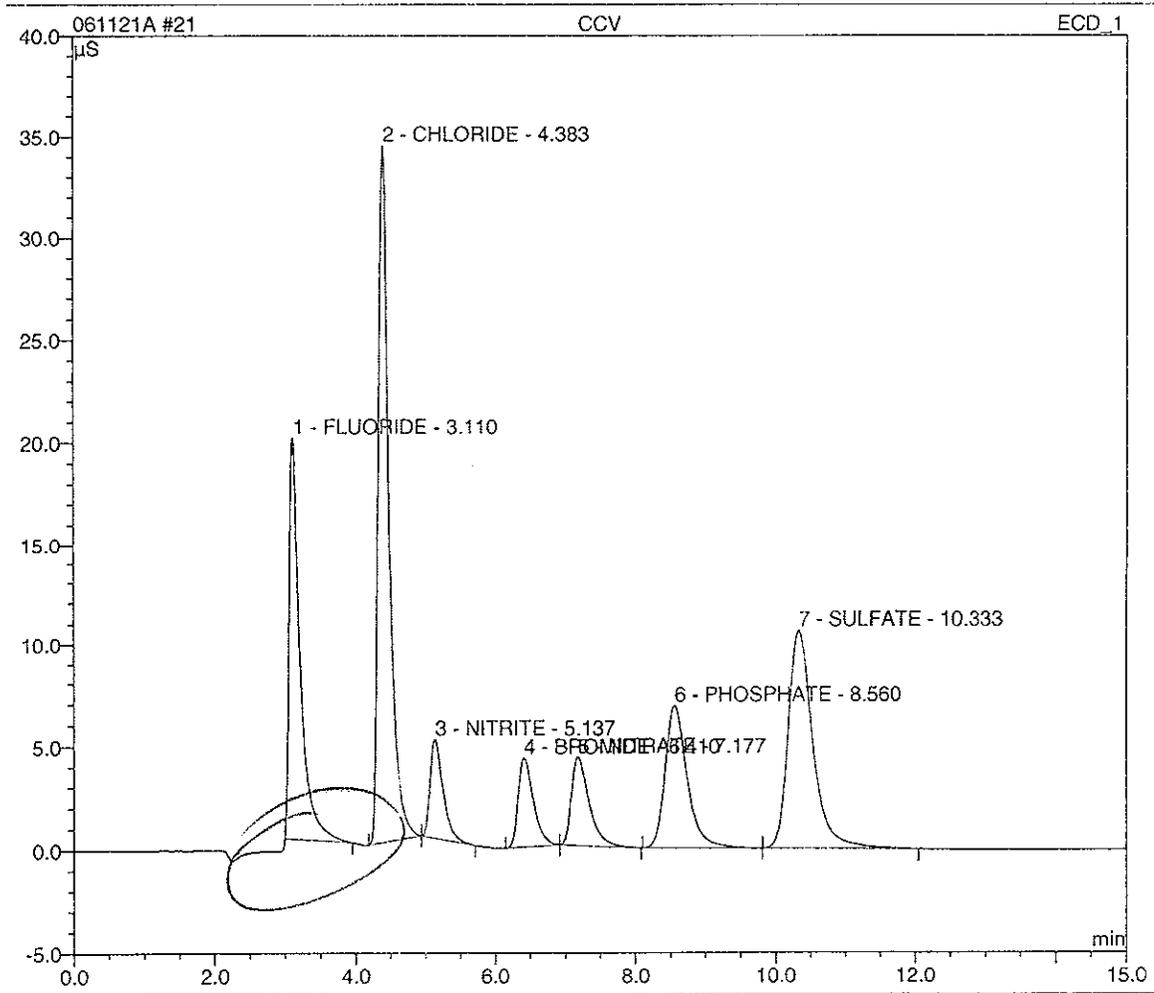
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Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 09:36	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
TOTAL:				0.00	0.00	0.00



Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 12:48	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.11	FLUORIDE	BMB	3.478	19.709	22.1964
2	4.38	CHLORIDE	BMB	6.173	34.209	47.2856
3	5.14	NITRITE	bMB	1.021	4.760	4.3283
4	6.41	BROMIDE	BMB	1.079	4.312	22.2518
5	7.18	NITRATE	bMB	1.253	4.270	4.5642
6	8.56	PHOSPHATE	BMB	2.510	6.814	23.4095
7	10.33	SULFATE	BMB	4.296	10.612	49.2894
TOTAL:				19.81	84.69	173.33

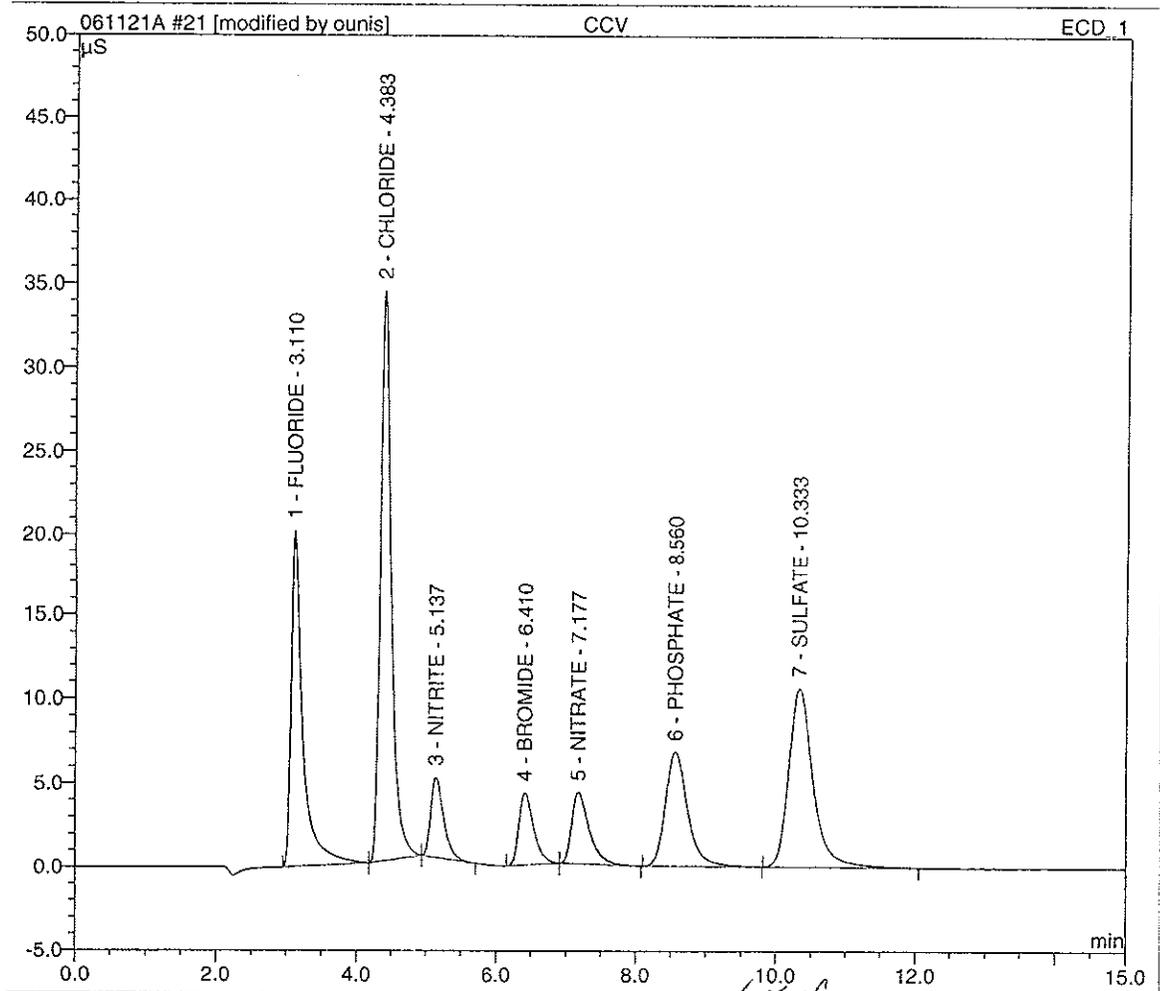


**BASELINE REDRAWN.**  
See next page.

os 11/27/06

Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 12:48	Run Time:	15.00

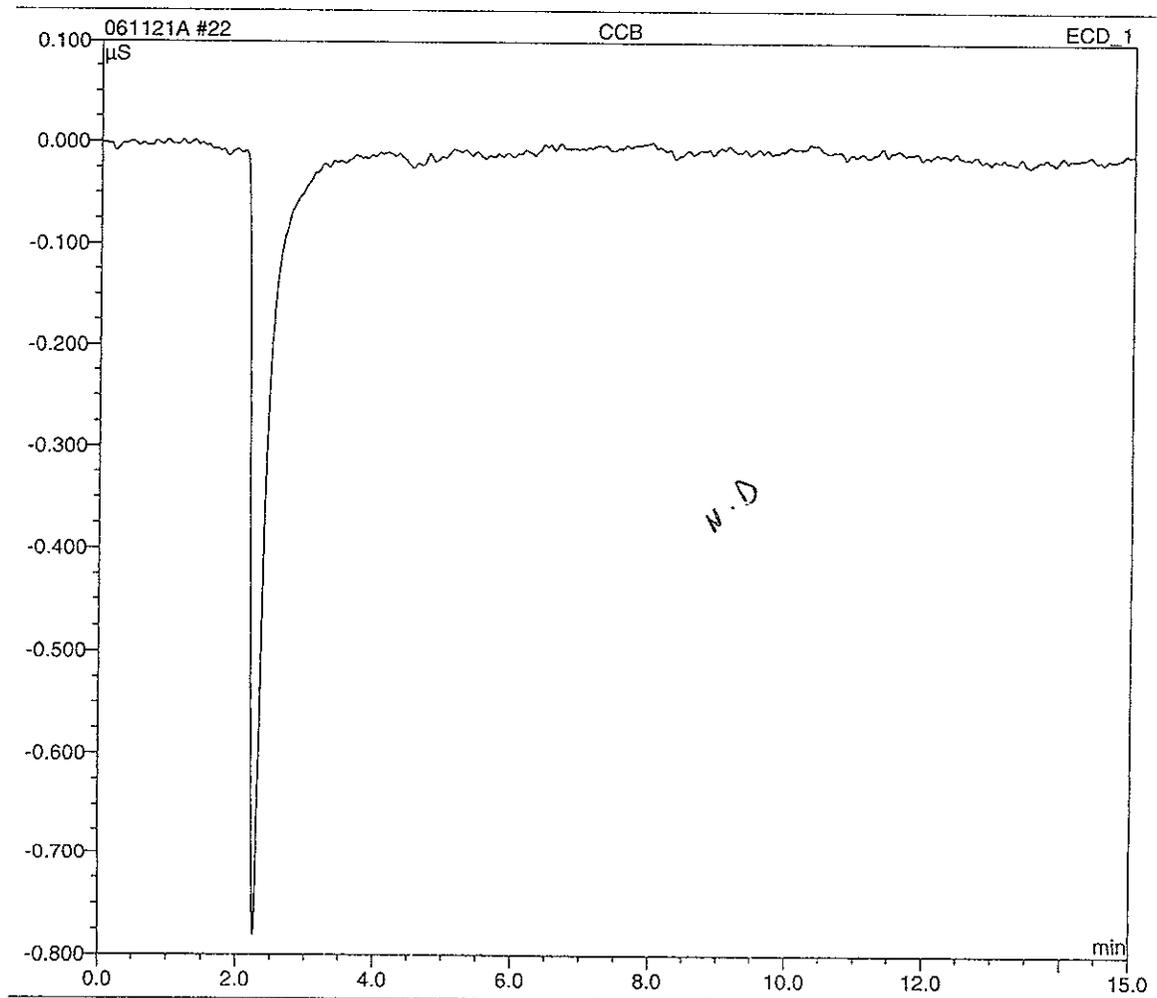
No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.11	FLUORIDE	BMB*	3.858	20.235	24.5098
2	4.38	CHLORIDE	bMb*	6.173	34.209	47.2856
3	5.14	NITRITE	bMB	1.021	4.760	4.3283
4	6.41	BROMIDE	BMb	1.079	4.312	22.2518
5	7.18	NITRATE	bMB	1.253	4.270	4.5642
6	8.56	PHOSPHATE	BMB	2.510	6.814	23.4095
7	10.33	SULFATE	BMB	4.296	10.612	49.2894
TOTAL:				20.19	85.21	175.64



✓ JDR  
11-27-06

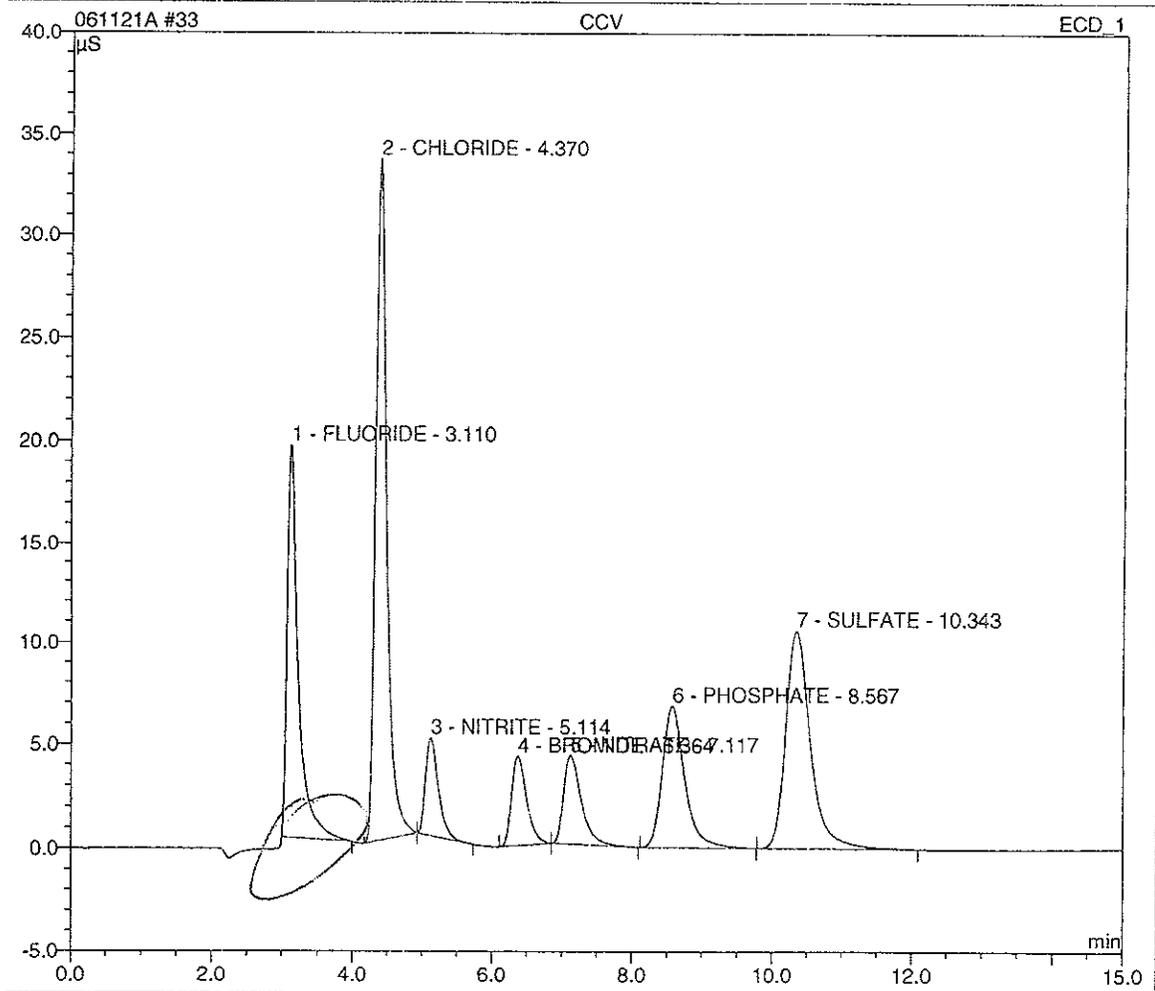
Sample Name:	CCB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 13:06	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
TOTAL:				0.00	0.00	0.00



Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 16:18	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.11	FLUORIDE	BMB	3.501	19.279	22.3326
2	4.37	CHLORIDE	BMB	6.143	33.417	47.0869
3	5.11	NITRITE	bMB	1.000	4.699	4.2386
4	6.36	BROMIDE	BMB	1.067	4.279	22.0174
5	7.12	NITRATE	bMB	1.250	4.253	4.5544
6	8.57	PHOSPHATE	BMB	2.506	6.778	23.3695
7	10.34	SULFATE	BMB	4.300	10.580	49.3280
TOTAL:				19.77	83.29	172.93



BASELINE REDRAWN.  
See next page.

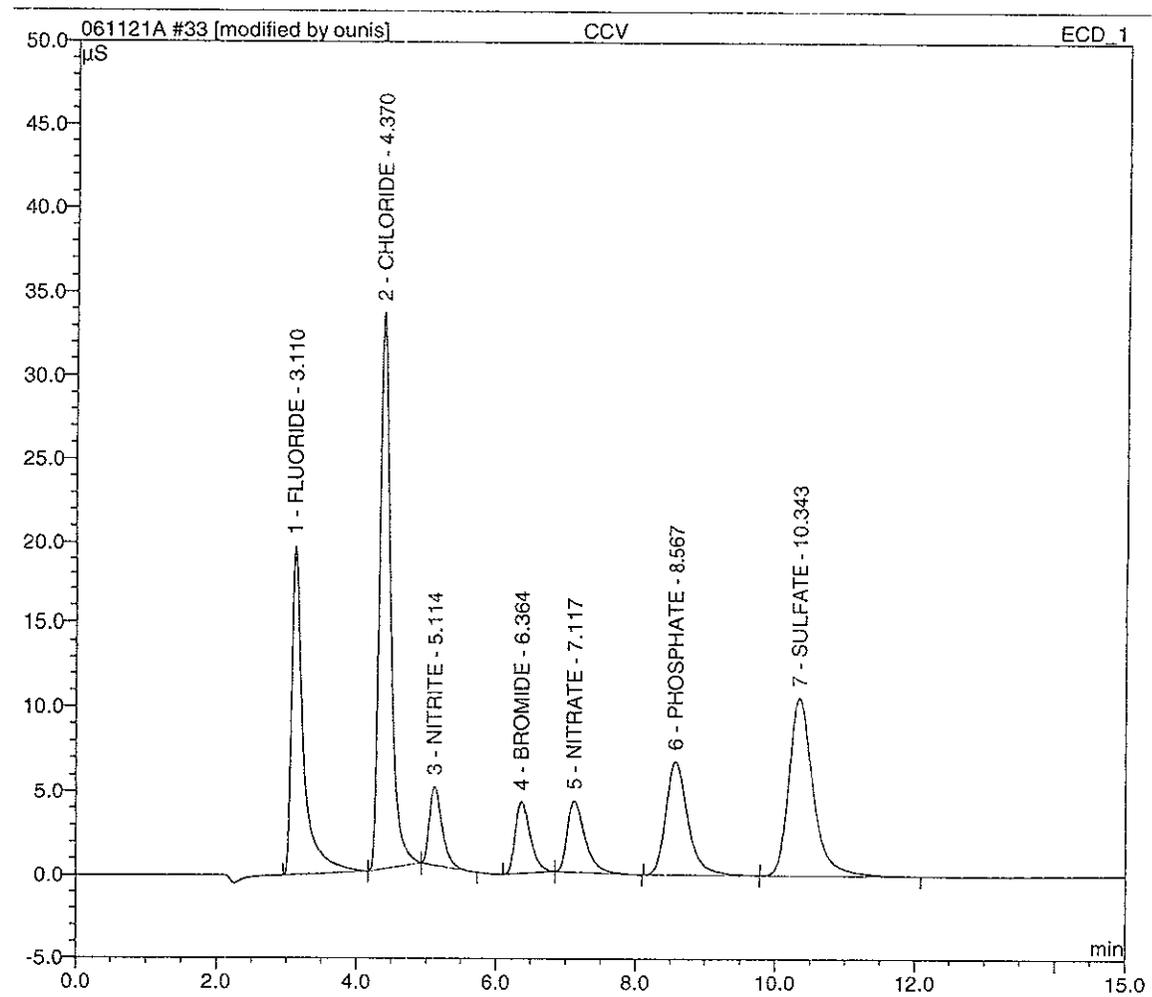
*JOR*  
11-27-06

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Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 16:18	Run Time:	15.00

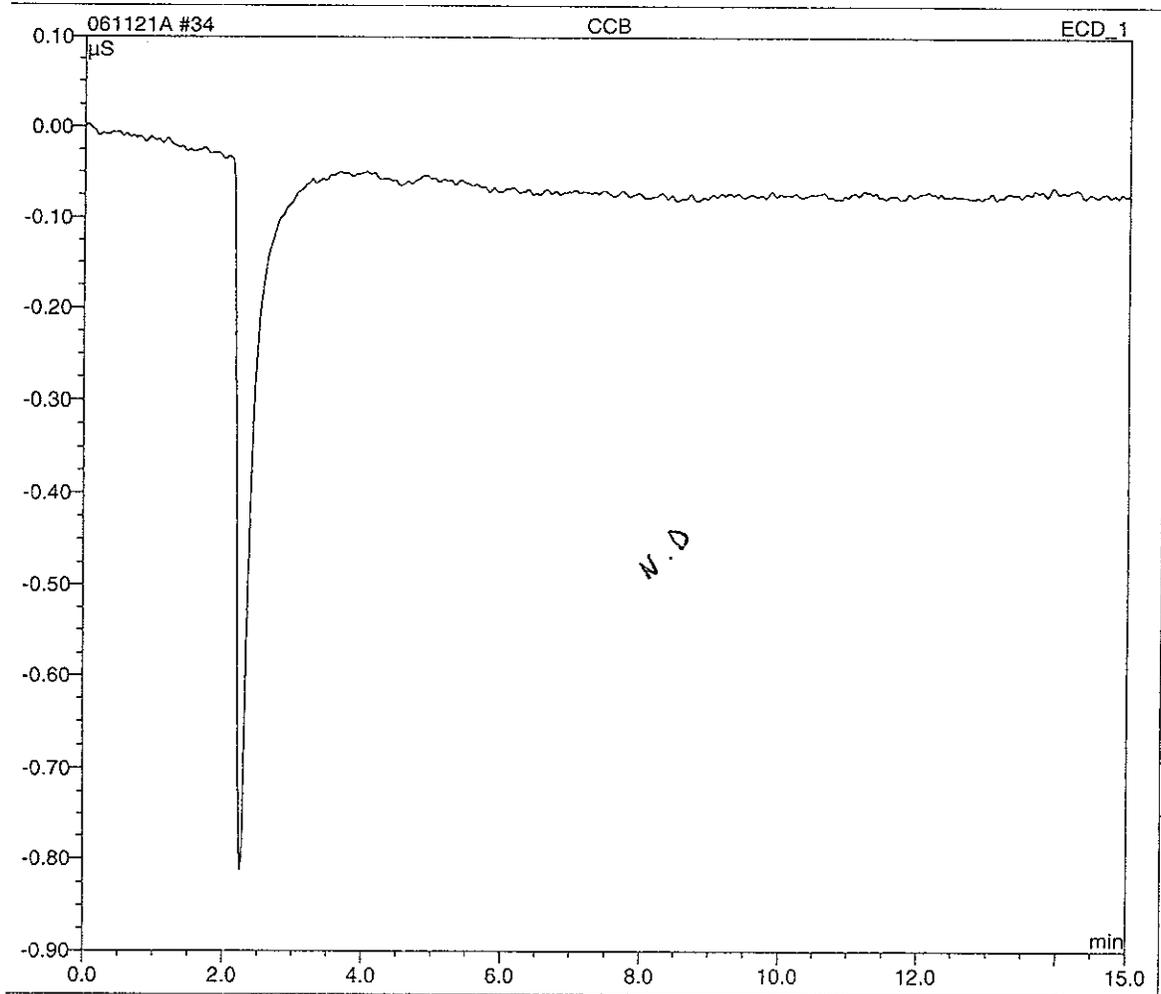
No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	%	Amount ppm
1	3.11	FLUORIDE	BMB*	3.854	19.783	q8	24.4803
2	4.37	CHLORIDE	BMB	6.143	33.417	q4	47.0869
3	5.11	NITRITE	bMB	1.000	4.699		4.2386
4	6.36	BROMIDE	BMB	1.067	4.279		22.0174
5	7.12	NITRATE	bMB	1.250	4.253		4.5544
6	8.57	PHOSPHATE	BMB	2.506	6.778	q3	23.3695
7	10.34	SULFATE	BMB	4.300	10.580	q9	49.3280
TOTAL:				20.12	83.79		175.08

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10  
34  
10



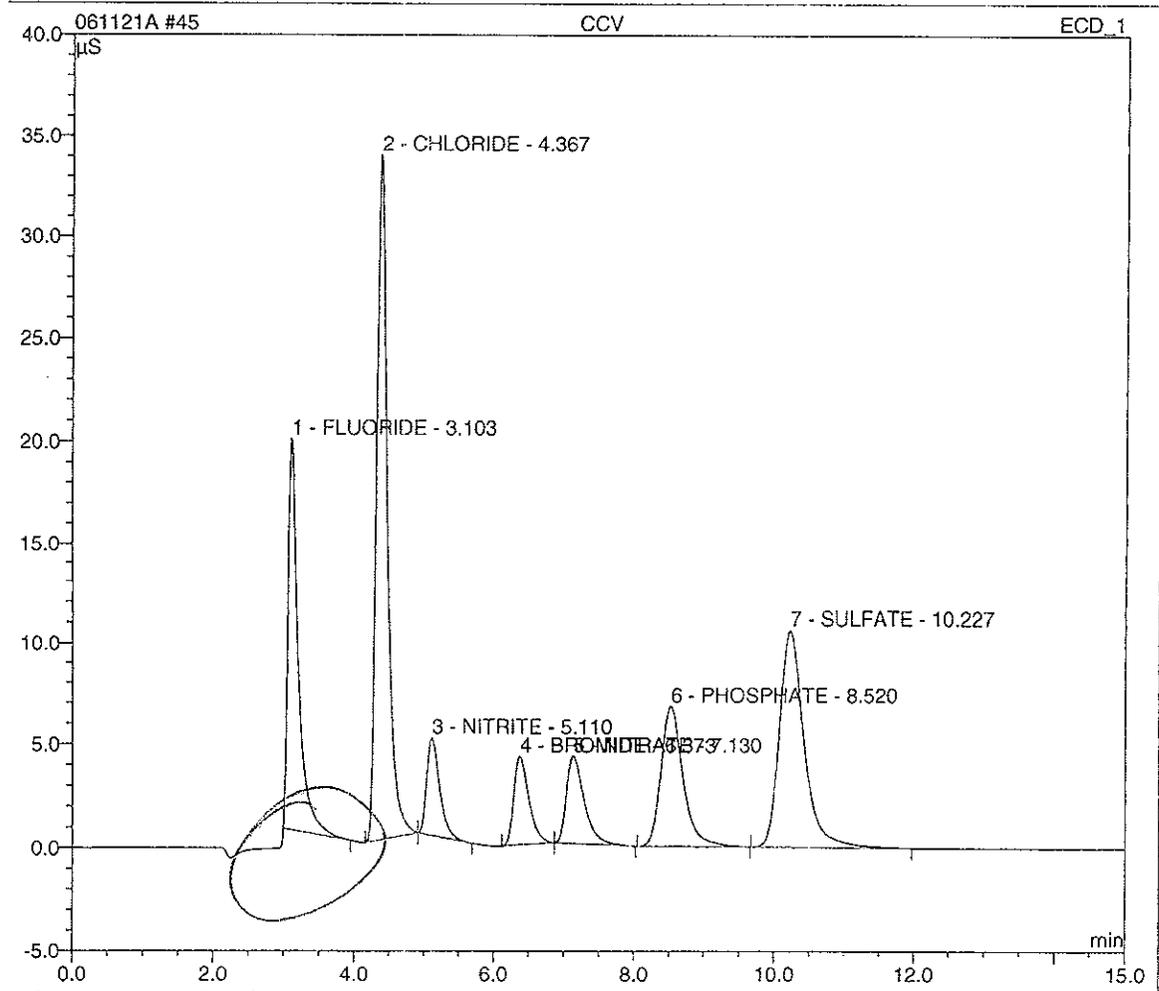
Sample Name:	CCB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 16:36	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
TOTAL:				0.00	0.00	0.00



Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 19:48	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.10	FLUORIDE	BMB	3.296	19.251	21.0782
2	4.37	CHLORIDE	BMB	6.104	33.700	46.8204
3	5.11	NITRITE	bMB	1.004	4.693	4.2537
4	6.37	BROMIDE	BMB	1.065	4.261	21.9615
5	7.13	NITRATE	bMB	1.239	4.220	4.5146
6	8.52	PHOSPHATE	BMB	2.475	6.754	23.0848
7	10.23	SULFATE	BMB	4.268	10.602	48.9865
TOTAL:				19.45	83.48	170.70



**BASELINE REDRAWN.**  
See next page.

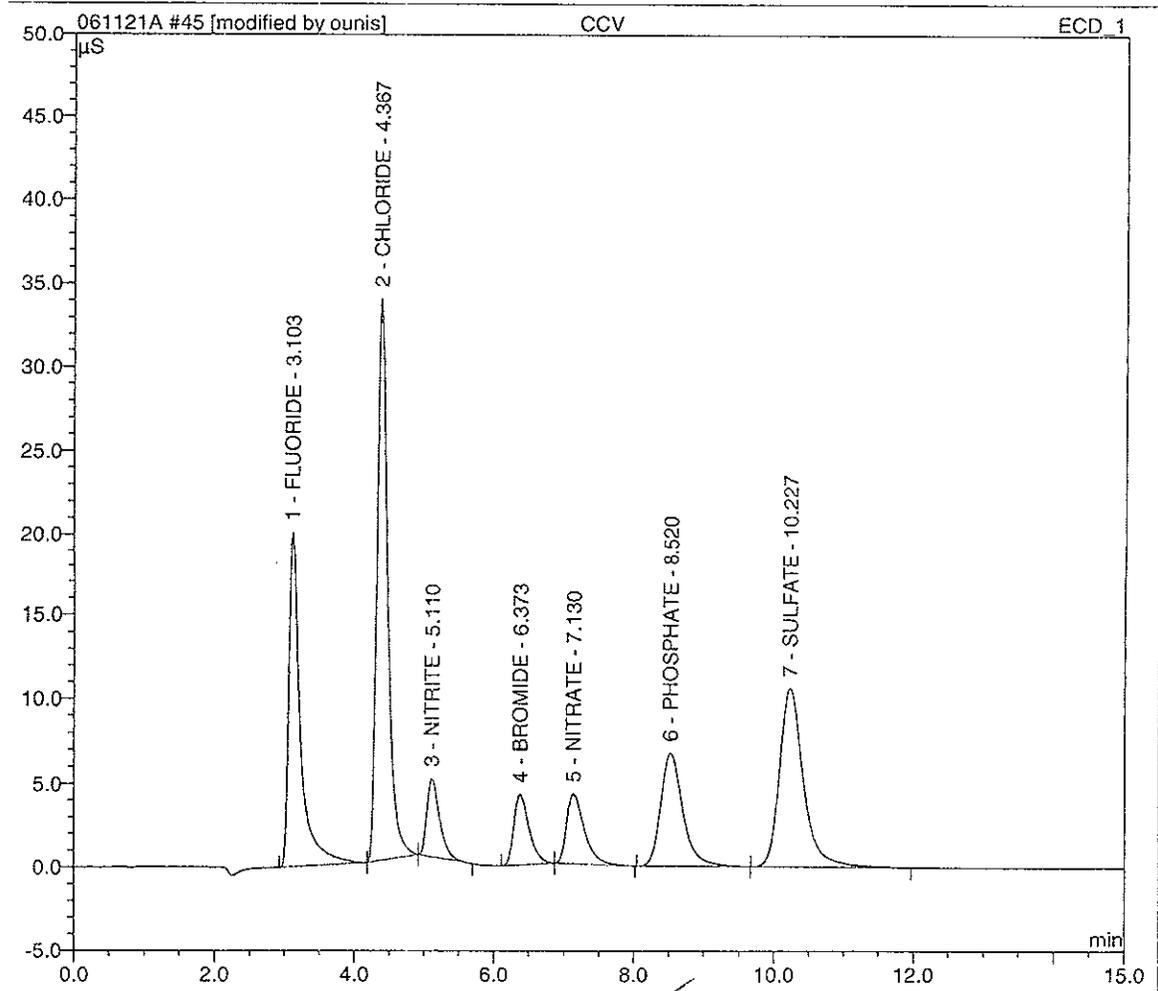
© S 11/27/06

ANION\_report/Integration

PeakNet 6 (r) Dionex 2001  
Version 6.50 SP4 Build 1000

Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 19:48	Run Time:	15.00

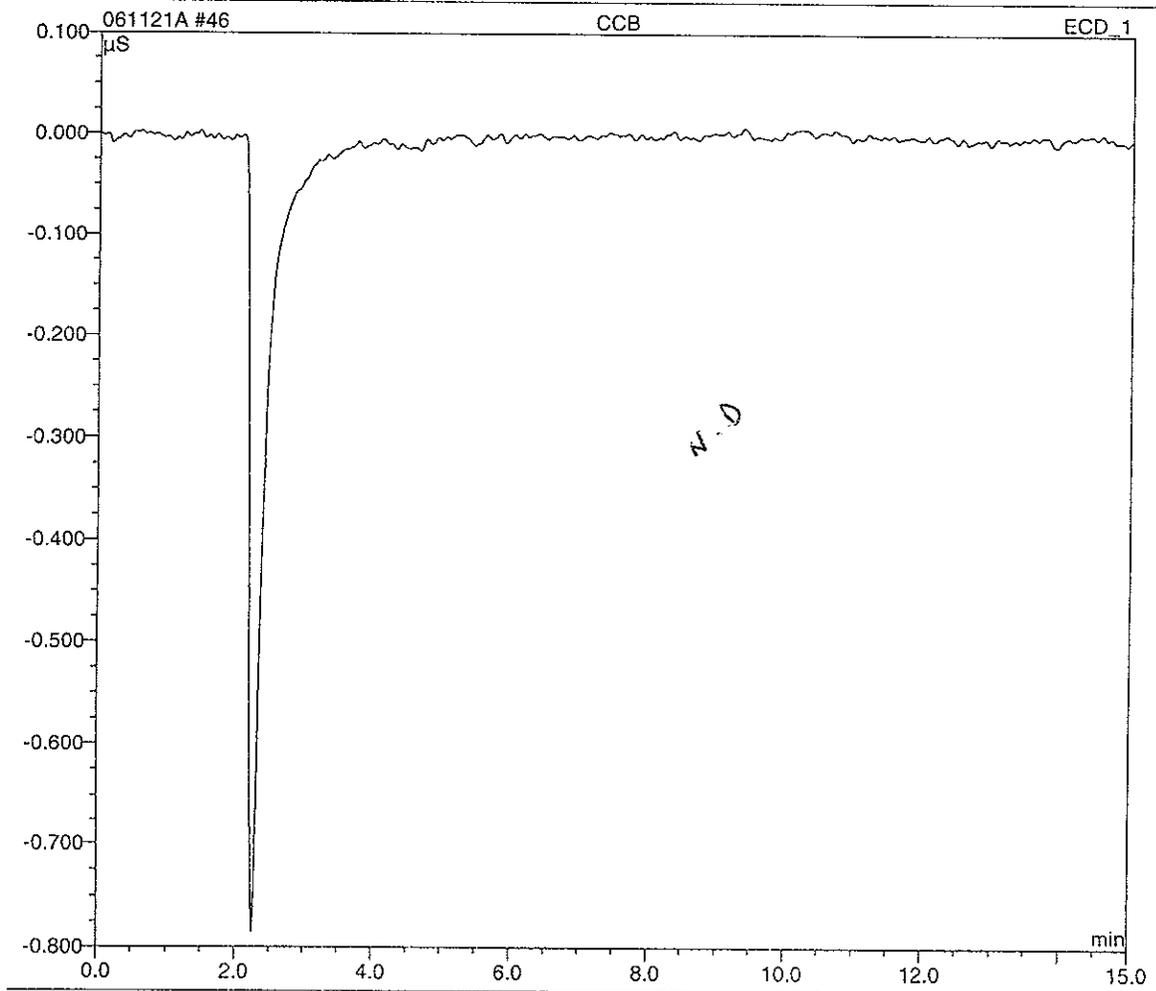
No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	%	Amount ppm
1	3.10	FLUORIDE	BMB*	3.842	20.114	98	24.4092
2	4.37	CHLORIDE	bMb*	6.098	33.689	94	46.7816
3	5.11	NITRITE	bMB	1.004	4.693		4.2537
4	6.37	BROMIDE	BMB	1.065	4.261		21.9615
5	7.13	NITRATE	bMB	1.239	4.220		4.5146
6	8.52	PHOSPHATE	BMB	2.475	6.754	92	23.0848
7	10.23	SULFATE	BMB	4.268	10.602	98	48.9865
TOTAL:				19.99	84.33		173.99



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*11.27.06*

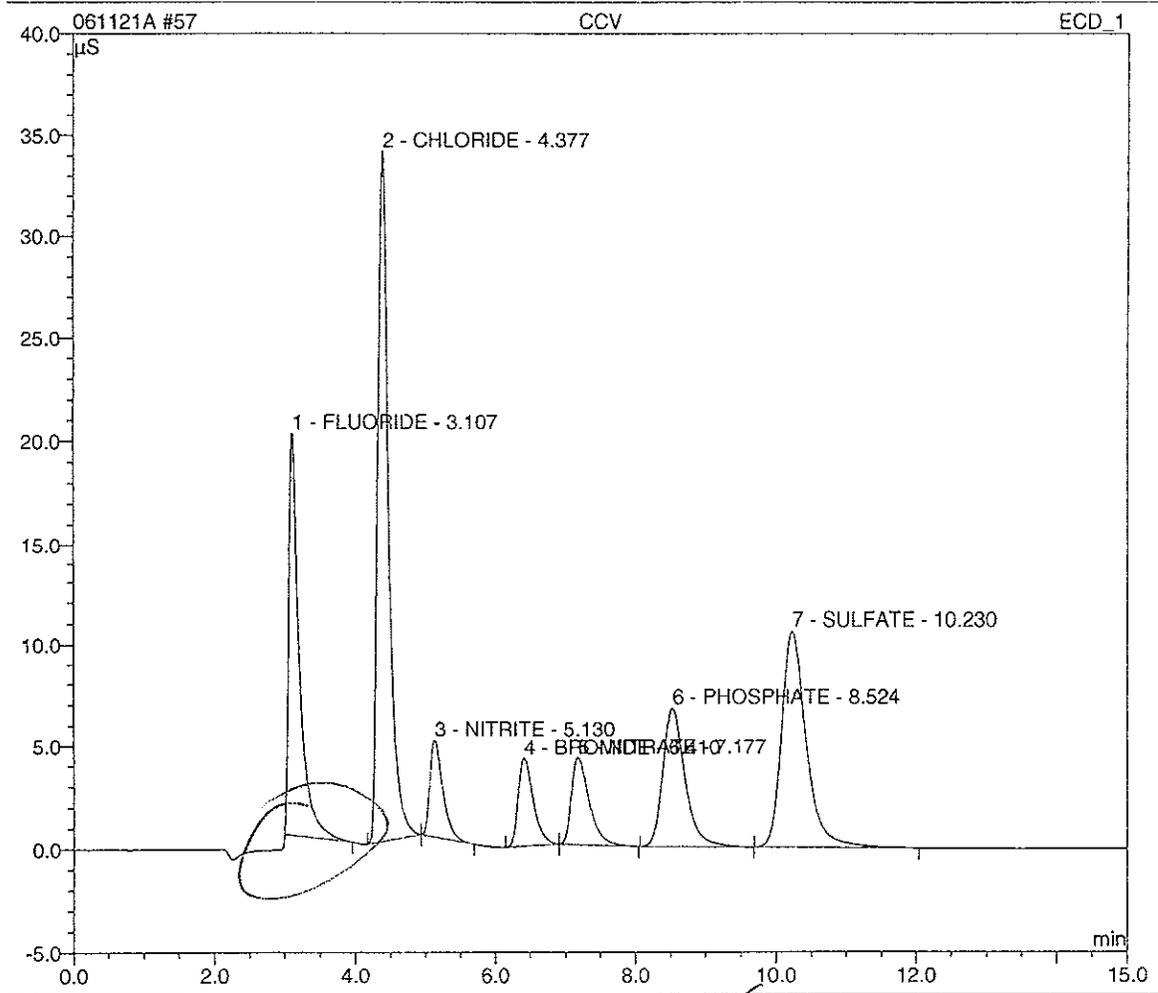
Sample Name:	CCB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 20:06	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
TOTAL:				0.00	0.00	0.00



Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 23:19	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.11	FLUORIDE	BMB	3.398	19.677	21.7033
2	4.38	CHLORIDE	BMb	6.109	33.853	46.8547
3	5.13	NITRITE	bMB	1.014	4.700	4.2958
4	6.41	BROMIDE	BMb	1.068	4.254	22.0302
5	7.18	NITRATE	bMB	1.239	4.208	4.5135
6	8.52	PHOSPHATE	BMB	2.472	6.740	23.0558
7	10.23	SULFATE	BMB	4.269	10.585	48.9976
TOTAL:				19.57	84.02	171.45

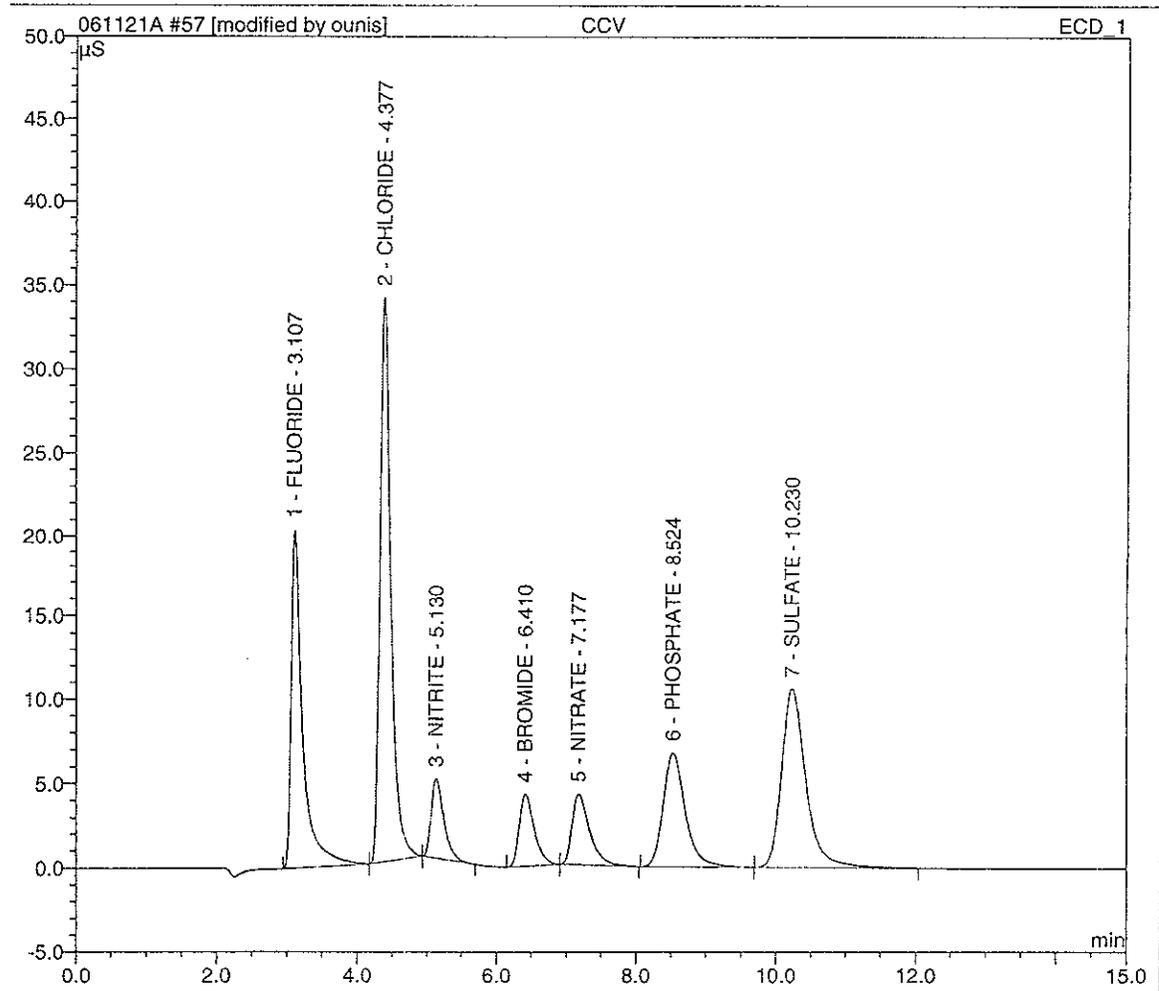


BASELINE REDRAWN.  
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Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 23:19	Run Time:	15.00

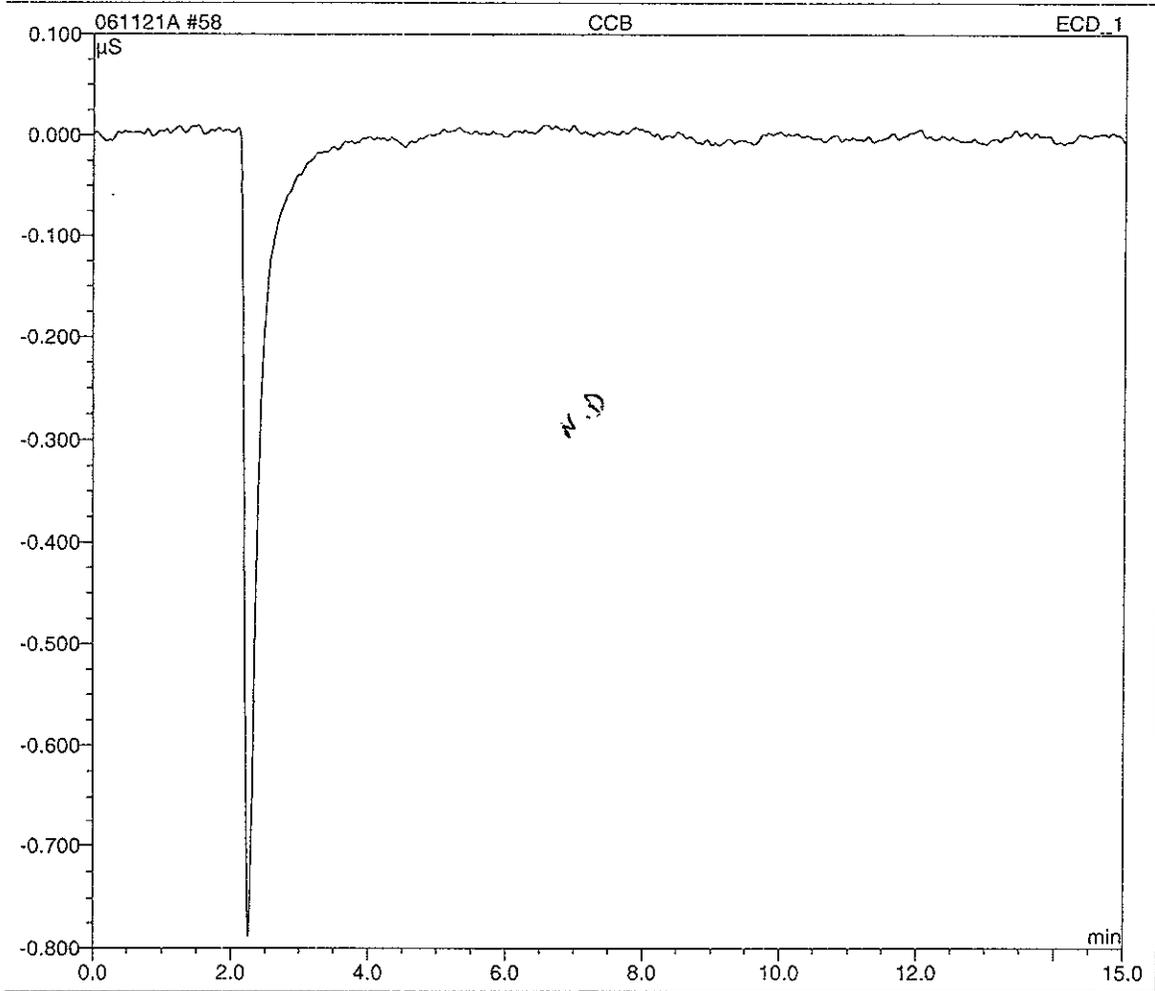
No.	Time min	Peak Name	Type	Area $\mu\text{S}^*\text{min}$	Height $\mu\text{S}$	%	Amount ppm
1	3.11	FLUORIDE	BMB*	3.858	20.360	48	24.5096
2	4.38	CHLORIDE	bMb*	6.109	33.853	44	46.8547
3	5.13	NITRITE	bMB	1.014	4.700		4.2958
4	6.41	BROMIDE	BMB	1.068	4.254		22.0302
5	7.18	NITRATE	bMB	1.239	4.208		4.5135
6	8.52	PHOSPHATE	BMB	2.472	6.740	42	23.0558
7	10.23	SULFATE	BMB	4.269	10.585	48	48.9976
TOTAL:				20.03	84.70		174.26



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11.27.06

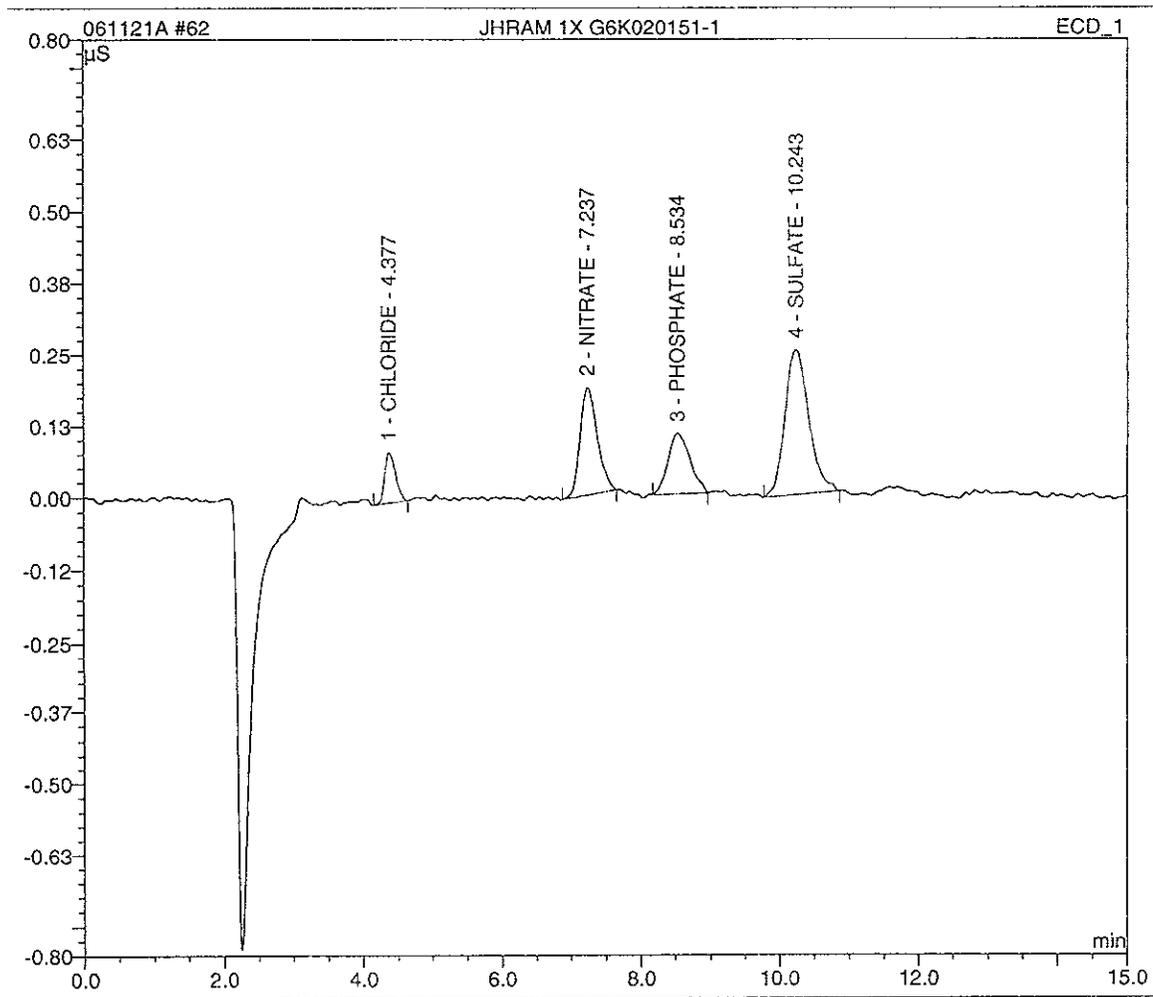
Sample Name:	CCB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	21.11.06 23:36	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
TOTAL:				0.00	0.00	0.00



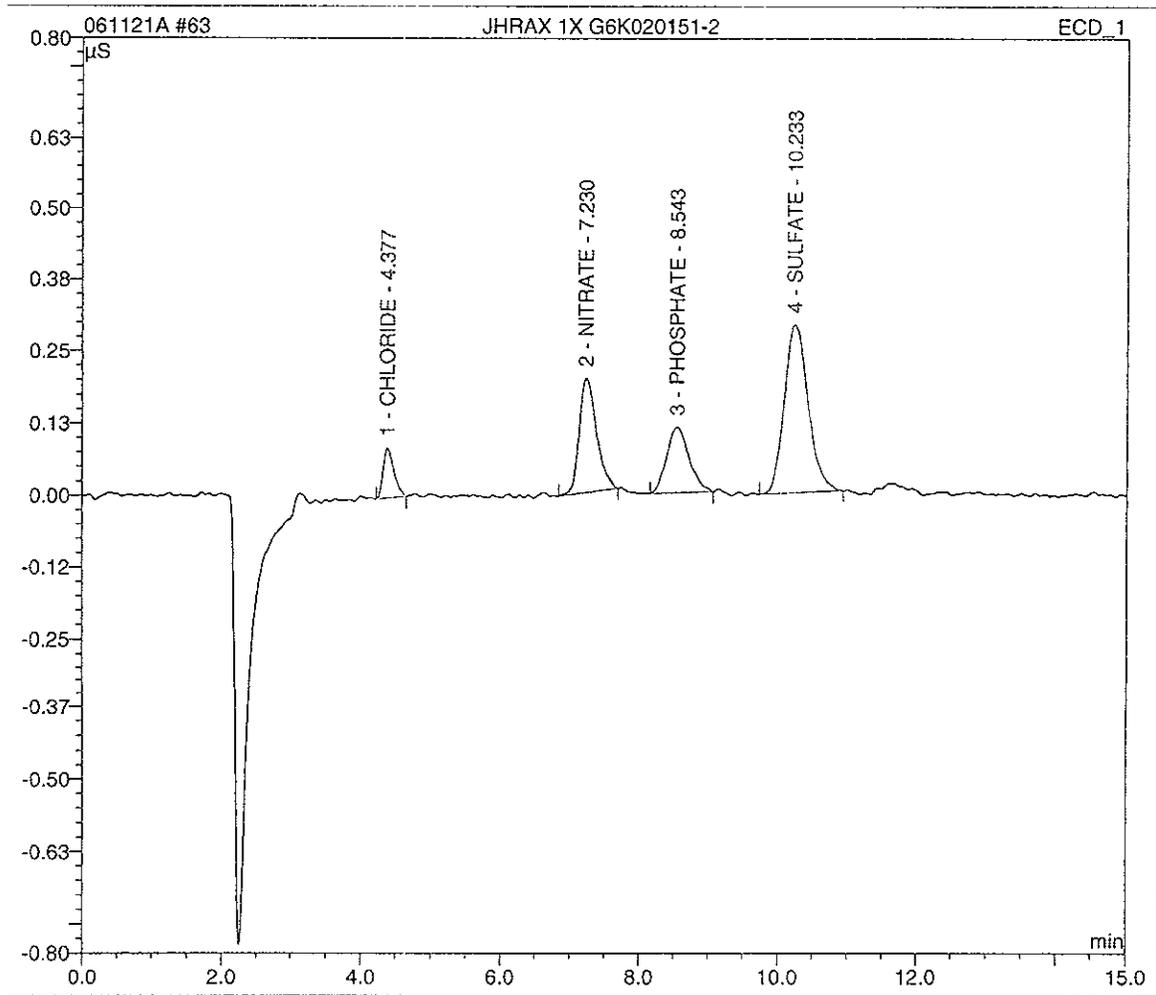
Sample Name:	JHRAM 1X G6K020151-1	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	22.11.06 00:46	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
1	4.38	CHLORIDE	BMB	0.016	0.088	0.2173
2	7.24	NITRATE	BMB	0.054	0.189	0.2427
3	8.53	PHOSPHATE	BMB	0.038	0.106	0.4515
4	10.24	SULFATE	BMB	0.101	0.254	1.2586
TOTAL:				0.21	0.64	2.17



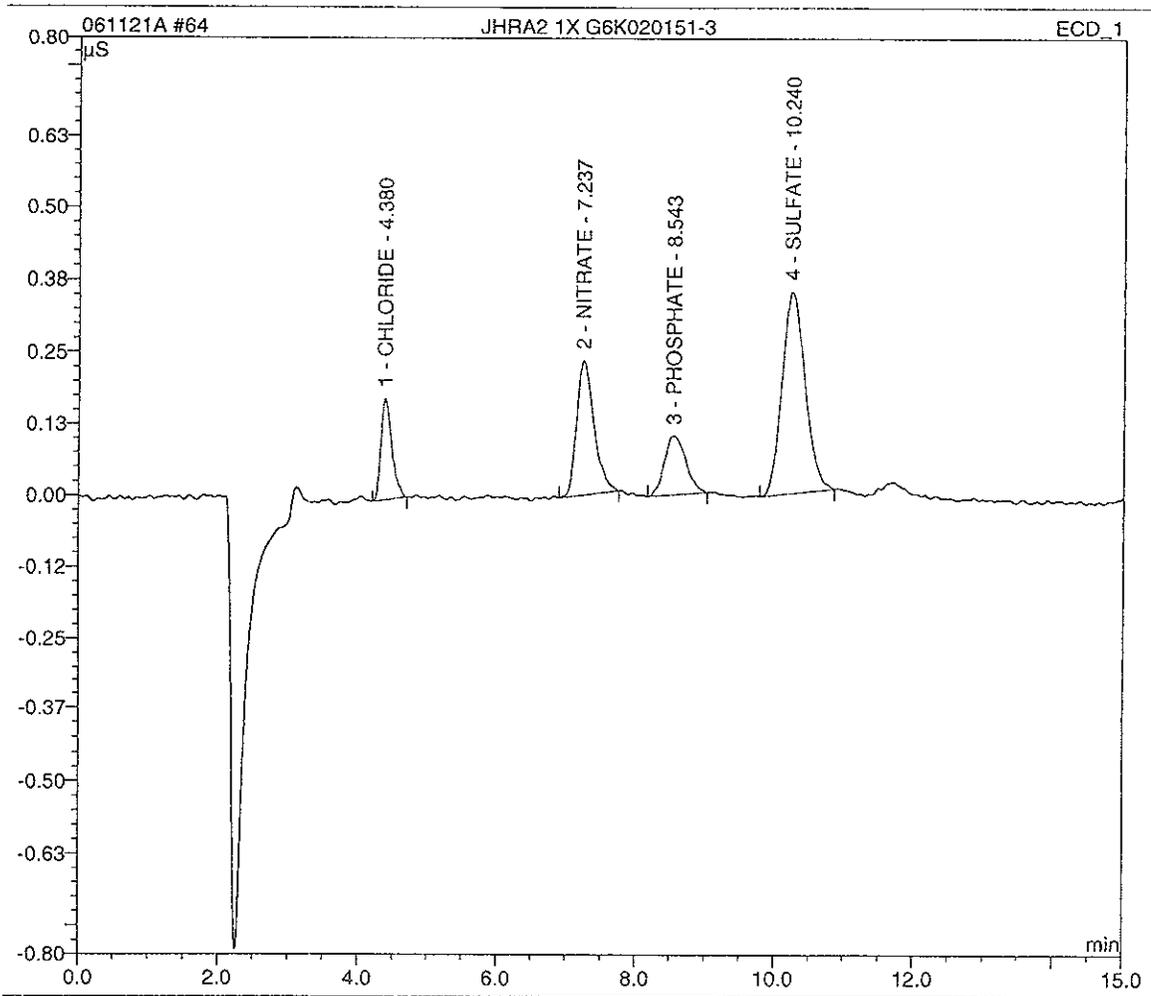
Sample Name:	JHRAX 1X G6K020151-2	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	22.11.06 01:04	Run Time:	15.01

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
1	4.38	CHLORIDE	BMB	0.015	0.086	0.2113
2	7.23	NITRATE	BMB	0.057	0.197	0.2544
3	8.54	PHOSPHATE	BMB	0.043	0.114	0.4925
4	10.23	SULFATE	BMB	0.116	0.291	✓ 1.4498
TOTAL:				0.23	0.69	2.41



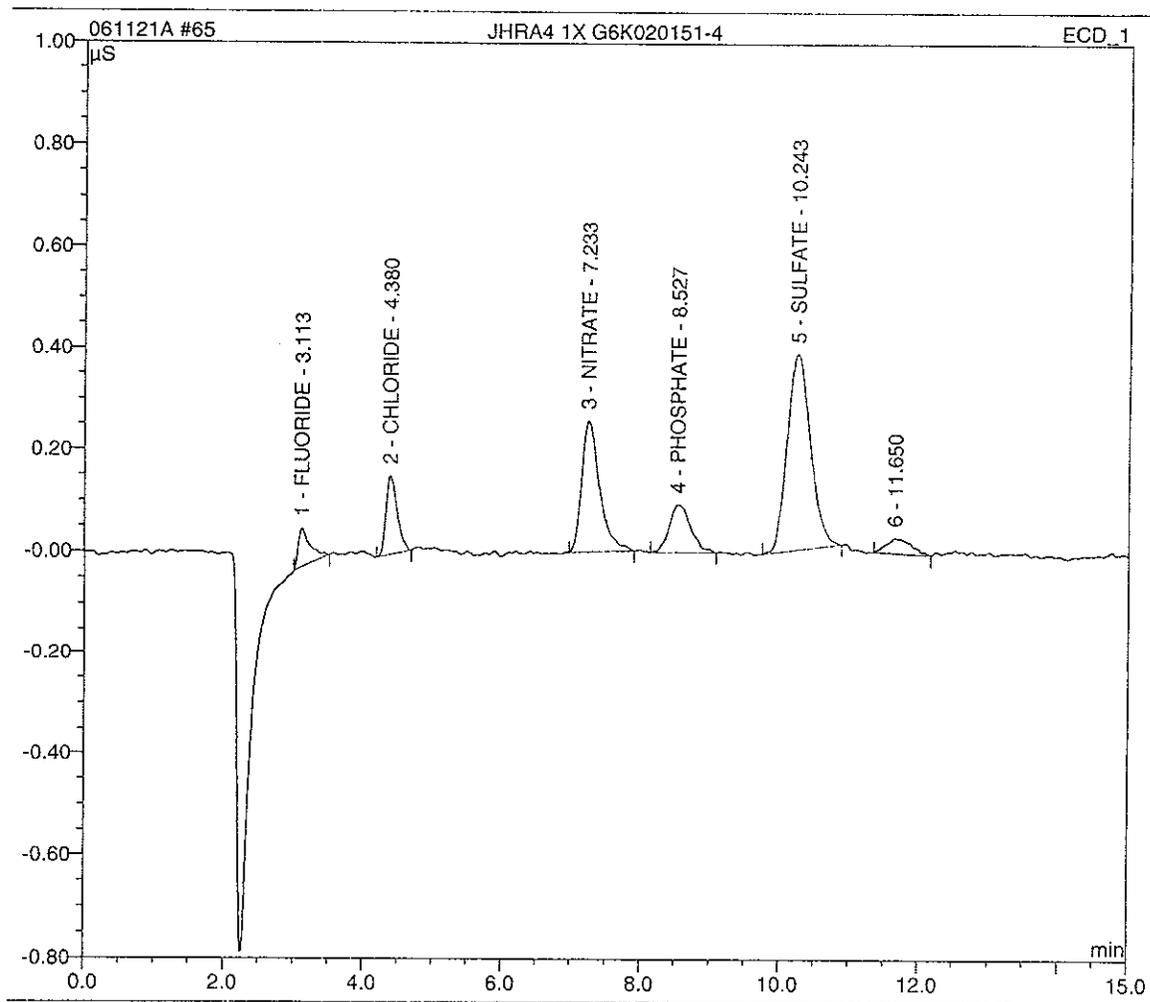
Sample Name:	JHRA2 1X G6K020151-3	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	22:11:06 01:21	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	4.38	CHLORIDE	BMB	0.032	0.177	0.3616
2	7.24	NITRATE	BMB	0.069	0.234	0.2966
3	8.54	PHOSPHATE	BMB	0.037	0.103	0.4381
4	10.24	SULFATE	BMB	0.135	0.351	✓ 1.6911
TOTAL:				0.27	0.87	2.79



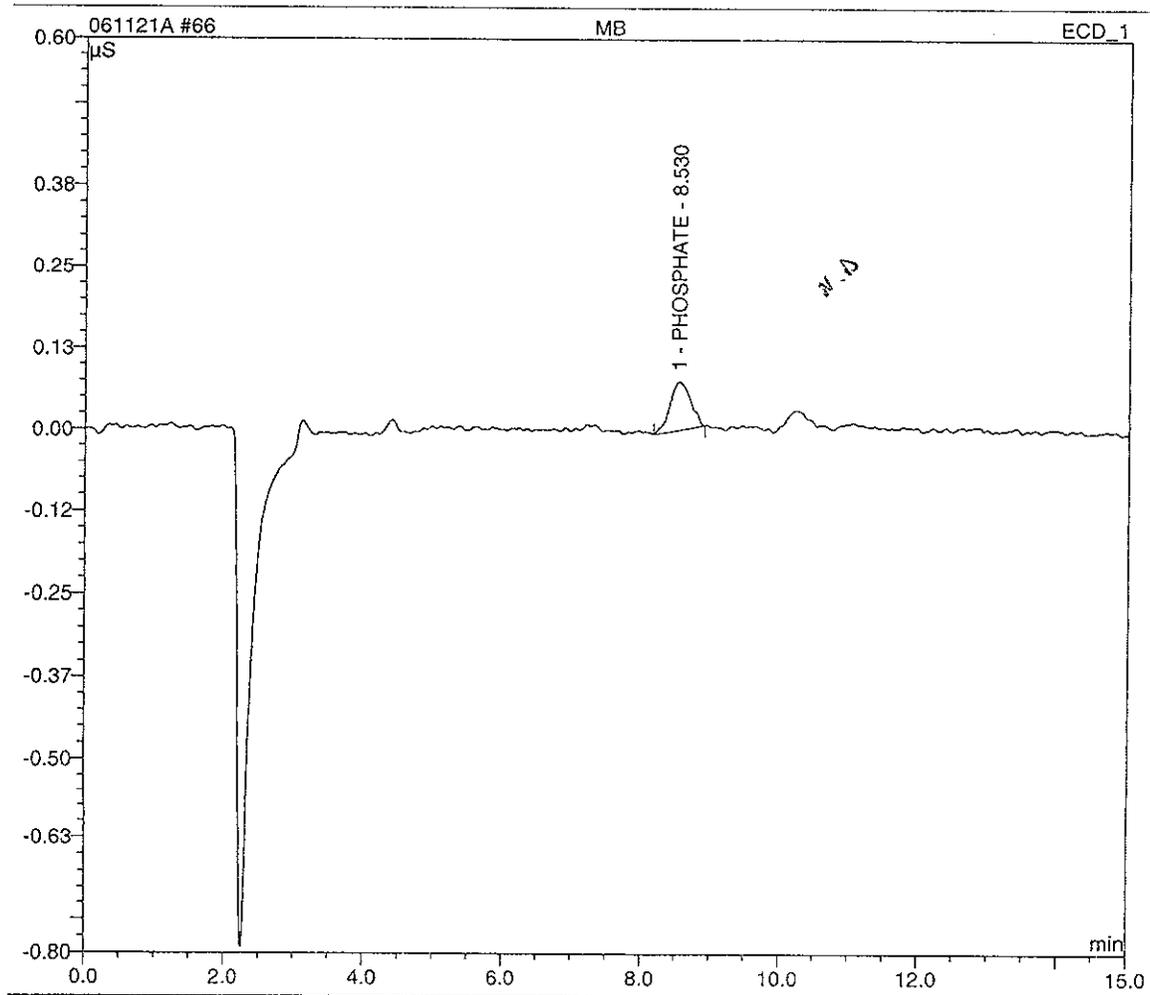
Sample Name:	JHRA4 1X G6K020151-4	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	22.11.06 01:39	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.11	FLUORIDE	BMB	0.015	0.075	0.0936
2	4.38	CHLORIDE	BMB	0.029	0.153	0.3275
3	7.23	NITRATE	BMB	0.077	0.257	0.3285
4	8.53	PHOSPHATE	BMB	0.034	0.093	0.4052
5	10.24	SULFATE	BMB	0.148	0.384	✓ 1.8504
TOTAL:				0.30	0.96	3.01



Sample Name:	MB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	22.11.06 01:56	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
1	8.53	PHOSPHATE	BMB	0.026	0.074	0.3314
TOTAL:				0.03	0.07	0.33

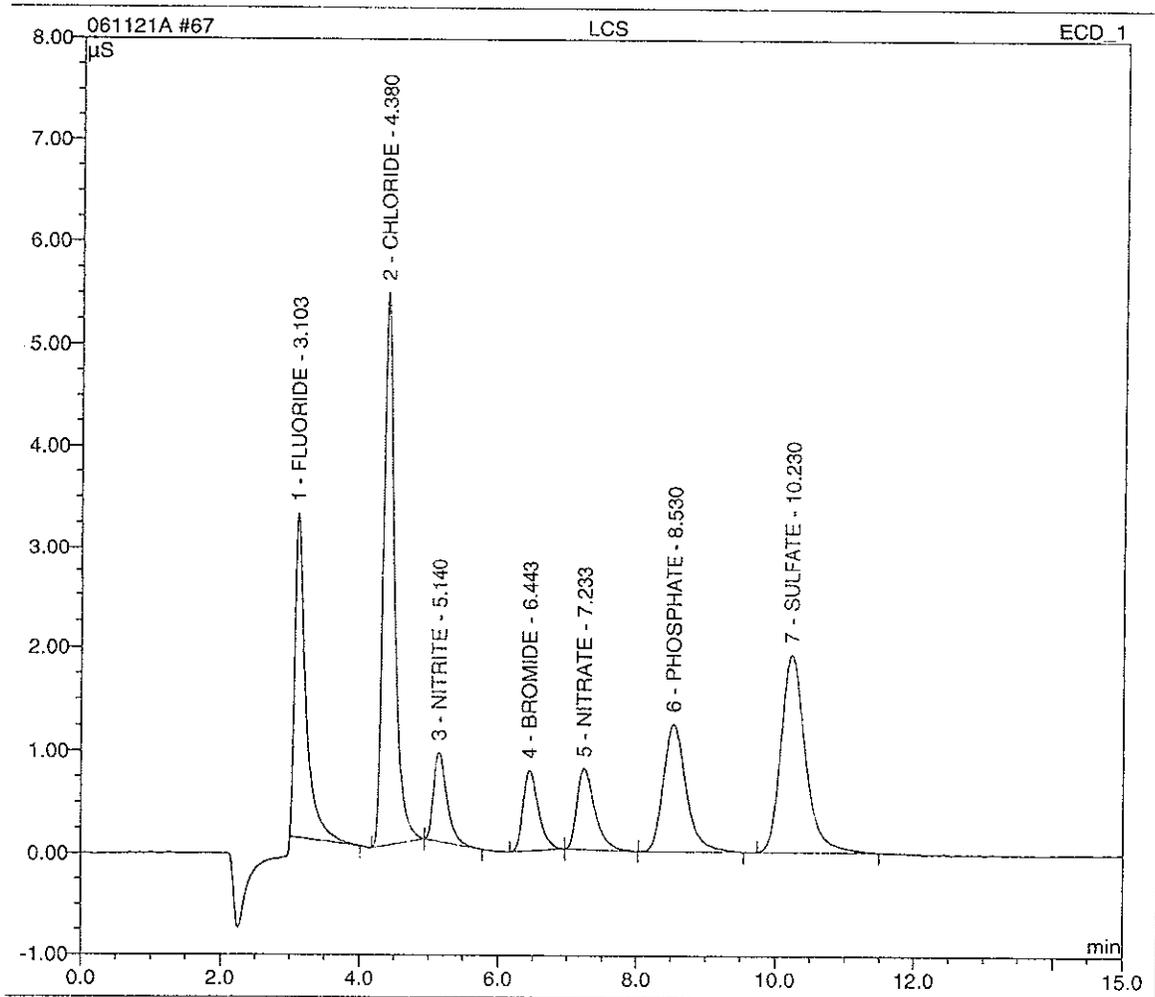


Sample Name:	LCS	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	22.11.06 02:14	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.10	FLUORIDE	BMB	0.596	3.181	3.9428
2	4.38	CHLORIDE	BMB	1.033	5.426	8.9182
3	5.14	NITRITE	bMB	0.195	0.872	0.8569
4	6.44	BROMIDE	BMB	0.205	0.787	4.2713
5	7.23	NITRATE	bMB	0.240	0.793	0.9138
6	8.53	PHOSPHATE	BMB	0.478	1.246	4.5297
7	10.23	SULFATE	BMB	0.793	1.923	9.7439
TOTAL:				3.54	14.23	33.18

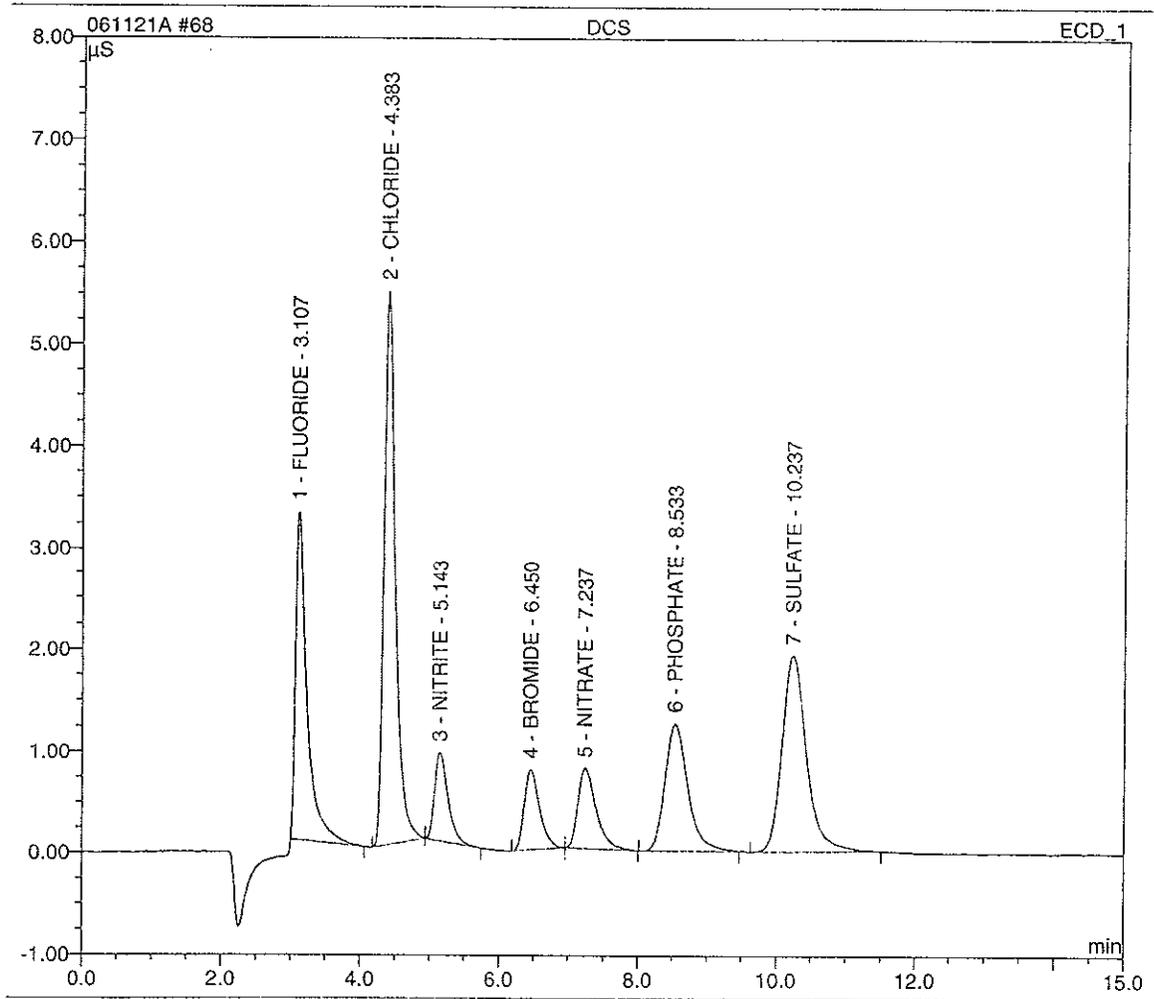
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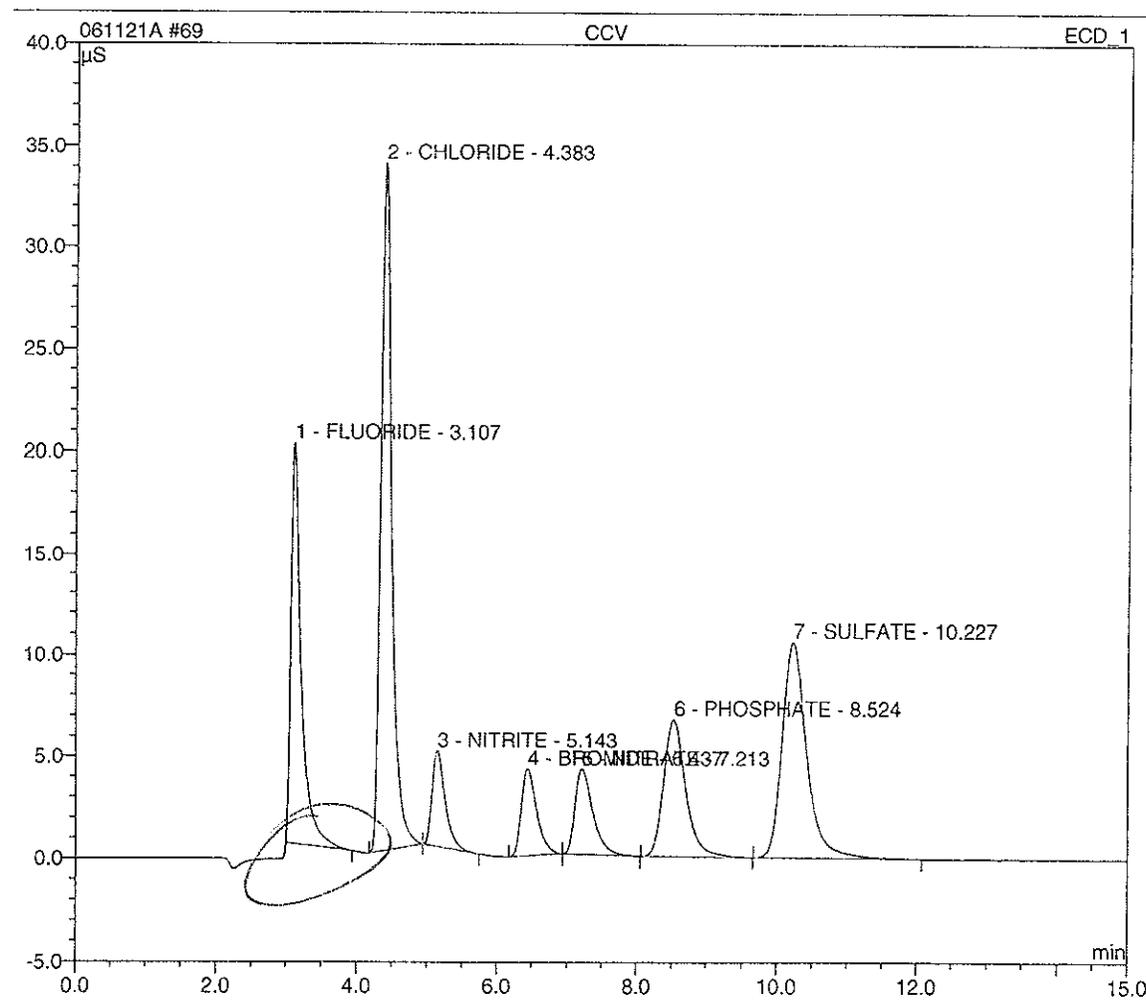
Sample Name:	DCS	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	22.11.06 02:31	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.11	FLUORIDE	BMB	0.621	3.223	4.1032
2	4.38	CHLORIDE	BMB	1.037	5.443	8.9504
3	5.14	NITRITE	bMB	0.195	0.873	0.8562
4	6.45	BROMIDE	BMB	0.204	0.793	4.2430
5	7.24	NITRATE	bMB	0.240	0.794	0.9126
6	8.53	PHOSPHATE	BMB	0.478	1.254	4.5317
7	10.24	SULFATE	BMB	0.801	1.937	9.8464
TOTAL:				3.58	14.32	33.44



Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	22.11.06 02:49	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.11	FLUORIDE	BMB	3.386	19.682	21.6308
2	4.38	CHLORIDE	BMB	6.130	33.806	46.9983
3	5.14	NITRITE	bMB	1.022	4.700	4.3302
4	6.44	BROMIDE	BMB	1.075	4.243	22.1640
5	7.21	NITRATE	bMB	1.236	4.182	4.5021
6	8.52	PHOSPHATE	BMB	2.468	6.727	23.0198
7	10.23	SULFATE	BMB	4.281	10.585	49.1301
TOTAL:				19.60	83.92	171.78

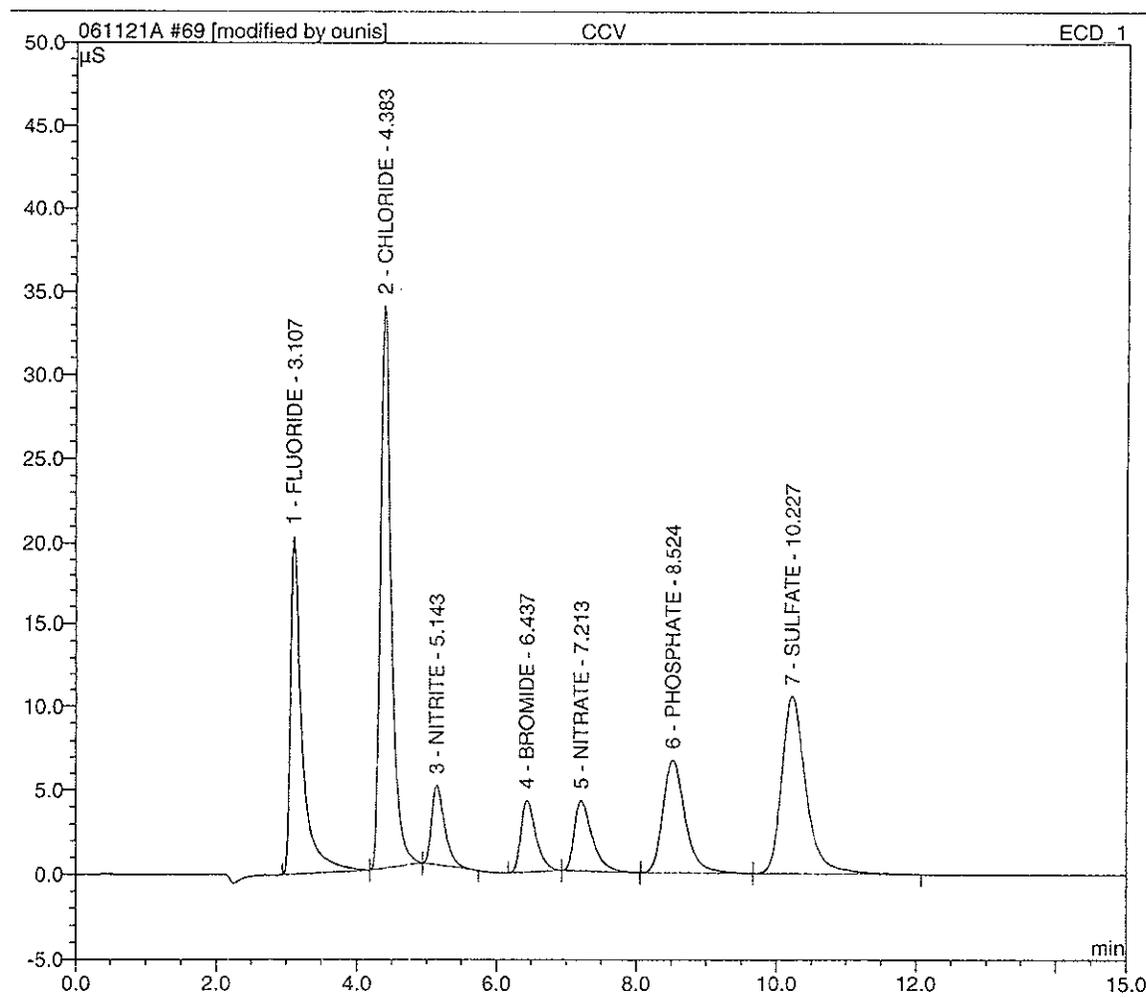


**BASELINE REDRAWN**  
See next page

03 11/27/06

Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	22.11.06 02:49	Run Time:	15.00

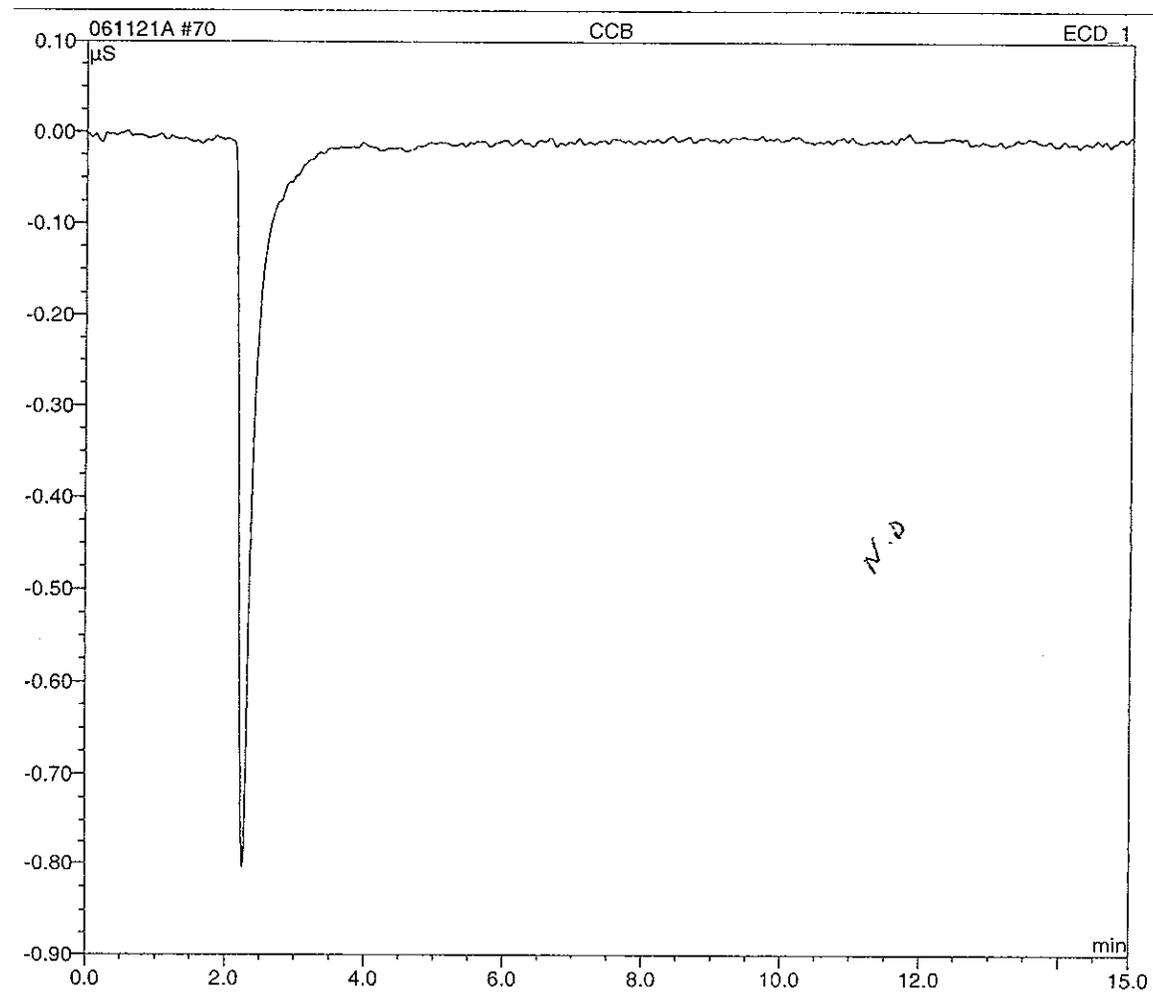
No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.11	FLUORIDE	BMB*	3.859	20.380	24.5116
2	4.38	CHLORIDE	bMb*	6.130	33.806	46.9983
3	5.14	NITRITE	bMB	1.022	4.700	4.3302
4	6.44	BROMIDE	BMB	1.075	4.243	22.1640
5	7.21	NITRATE	bMB	1.236	4.182	4.5021
6	8.52	PHOSPHATE	BMB	2.468	6.727	23.0198
7	10.23	SULFATE	BMB	4.281	10.585	49.1301
TOTAL:				20.07	84.62	174.66



JOR  
11-27-06

Sample Name:	CCB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	22:11:06 03:06	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount ppm
TOTAL:				0.00	0.00	0.00



# AIR, PM-10 & TSP

STL Sacramento

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE
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METHOD: JR Particulate Matter as PM10 "PM10 HiVol" (CFR50-J)  
 QC BATCH #: 6320612 INITIALS: DATA ENTRY: SV  
 PREP DATE: 11/07/06 10:04 PREP: SV INITIALS: SV  
 COMP DATE: 11/15/06 15:51 ANAL: SV DATE: 11/16/06  
 USER: VALMORES

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
✓JHQ8V-1-AA	G-6K020146-001	XX S 88 JR 01	Y-D	11/15/06	P-0786
✓JHQ88-1-AA	G-6K020146-002	XX S 88 JR 01	Y-D		P-0787
✓JHQ9A-1-AA	G-6K020146-003	XX S 88 JR 01	Y-D		P-0788
✓JHQ9F-1-AA	G-6K020146-004	XX S 88 JR 01	Y-D		P-0789
✓JHRAM-1-AA	G-6K020151-001	XX S 88 JR 01	Y-D		P-0782
✓JHRAX-1-AA	G-6K020151-002	XX S 88 JR 01	Y-D		P-0783
✓JHRA2-1-AA	G-6K020151-003	XX S 88 JR 01	Y-D		P-0784
✓JHRCC-1-AA	G-6K020151-005	XX S 88 JR 01	Y-D		P-0785

Control Limits

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: G6K020146 -1-4 / G6K020151 <sup>1,3,5</sup> Batch #: 6320612

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 11/16/06 ANALYST: S. Valmore

LEVEL 1 ANALYSIS REVIEW

- |  | YES                                 | NO                       | NA                                  |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. Samples are in good condition.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2. Sample filter number matches the folder or petri ID number.                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3. Desiccator temperature and % humidity criteria in control.                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4. Balance calibration criteria met.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5. Beginning and ending calibration sample bracket weights are in calibration. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6. Samples reached stable weight.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7. Samples exceeded 5 consecutive final weighings.                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

LEVEL 1 DATA REVIEW

- |   |                                     |                          |                                     |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. Benchsheet is complete.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2. QAS or QAPP consulted and followed for client specifics.                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3. Data entered in properly.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4. Copy of spreadsheet or logbook raw data entry attached to data package.                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5. Analyst observations, HTV's, Anomalies properly documented and attached to data package. | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Completed By & Date: SV 11/16/06

LEVEL 2 REVIEW:

- |   |                                     |                          |                                     |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. Level 1 checklist complete and verified.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2. Deviations, Anomalies, Holding times checked and approved.                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3. Reanalysis documented and chemist notified.                                      | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Client specific criteria met.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5. Data entry checked and released in Quantims.                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6. Indication on benchsheet or spreadsheet on review and released (dated & signed). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

Completed By & Date: SV 11/27/06

Comments: des 1A

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PDE115

Severn Trent Laboratories, Inc.  
Inorganics Batch Review  
QC Batch 6320612

Date 11/27/2006  
Time 10:00:54

Method Code:JR Particulate Matter as PM10 "PM10 HiVol" (CFR50-J)  
Analyst:Steve Valmores

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JHQ8V-1-AA	0.0112	g	0.0001	11/07-11/15/06	.00	N	R	0.0112	0.0001	1.00
JHQ88-1-AA	0.0145	g	0.0001	11/07-11/15/06	.00	N	R	0.0145	0.0001	1.00
JHQ9A-1-AA	0.0346	g	0.0001	11/07-11/15/06	.00	N	R	0.0346	0.0001	1.00
JHQ9F-1-AA	0.0127	g	0.0001	11/07-11/15/06	.00	N	R	0.0127	0.0001	1.00
JHRAM-1-AA	0.0083	g	0.0001	11/07-11/15/06	.00	N	R	0.0083	0.0001	1.00
JHRAX-1-AA	0.0111	g	0.0001	11/07-11/15/06	.00	N	R	0.0111	0.0001	1.00
JHRA2-1-AA	0.0209	g	0.0001	11/07-11/15/06	.00	N	R	0.0209	0.0001	1.00
JHRCC-1-AA	0.0099	g	0.0001	11/07-11/15/06	.00	N	R	0.0099	0.0001	1.00

Notes:

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

STL Sacramento

PRODUCTION FIGURES - WET CHEM

<u>TOTAL</u> <u>NUMBER</u>	<u>SAMPLE</u> <u>NUMBER</u>	<u>QC</u>	<u>RE-RUN</u> <u>MATRIX</u>	<u>RE-RUN</u> <u>OTHER</u>	<u>MISC</u> <u>NUMBER</u>	<u>TOTAL</u> <u>HOURS</u>	<u>EXPANDED</u> <u>DELIVERABLE</u>
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METHOD: AO Particulates in Air, Suspended "TSP HiVol" (APP B)  
 QC BATCH #: 6320607 INITIALS: SP DATA ENTRY: SP  
 PREP DATE: 11/07/06 10:11 PREP SP INITIALS SP  
 COMP DATE: 11/15/06 15:56 ANAL SP DATE 11/16/06  
 USER: VALMORES

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
✓ JHQ9H-1-AA	G-6K020146-005	XX S 88 AO 3W	Y-D	<u>11/15/06</u>	000550
✓ JHRA4-1-AA	G-6K020151-004	XX S 88 AO 3W	Y-D	<u>↓</u>	000547

Control Limits

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: 66K020146-5 / 66K020151-4 Batch #: 6320607

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 11/16/06 ANALYST: S Valmores

LEVEL 1 ANALYSIS REVIEW

	YES	NO	NA
1. Samples are in good condition.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Sample filter number matches the folder or petri ID number.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Desiccator temperature and % humidity criteria in control.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Balance calibration criteria met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Beginning and ending calibration sample bracket weights are in calibration.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Samples reached stable weight.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Samples exceeded 5 consecutive final weighings.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

LEVEL 1 DATA REVIEW

1. Benchsheet is complete.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. QAS or QAPP consulted and followed for client specifics.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Data entered in properly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Copy of spreadsheet or logbook raw data entry attached to data package.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Analyst observations, HTV's, Anomalies properly documented and attached to data package.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Completed By & Date: SV 11/16/06

LEVEL 2 REVIEW:

1. Level 1 checklist complete and verified.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Deviations, Anomalies, Holding times checked and approved.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Reanalysis documented and chemist notified.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Client specific criteria met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Data entry checked and released in Quantims.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Indication on benchsheet or spreadsheet on review and released (dated & signed).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Completed By & Date: SV 11/27/06

Comments: See 1A

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PDE115

Severn Trent Laboratories, Inc.  
Inorganics Batch Review  
QC Batch 6320607

Date 11/27/2006  
Time 10:16:40

Method Code:AO Particulates in Air, Suspended "TSP HiVol" (APP B)  
Analyst:Steve Valmores

Work Order	Result	Units	IDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JHQ9H-1-AA	0.0596	g	0.0001	11/07-11/15/06	.00	N	R	0.0596	0.0001	1.00
JHRA4-1-AA	0.0346	g	0.0001	11/07-11/15/06	.00	N	R	0.0346	0.0001	1.00

Notes:

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0